CALCULATION SHEET

Facility Estech General Chemicals	I.D. <u>163 050 AAB</u>
Anal. Eng. JOA Date 05 28 80	PN 72100690
Rev. Eng. Date	Date Rec. <u>0</u> <u>5</u> <u>13</u> <u>80</u>

	US EPA RECORDS CENTER REGION 5
Eap not required	486289
	1 / 1/1
Facility manufacture granulated chem	cal fertilizers,
package and Sup the featurers. It is	to 000 to 100
package and ship the tentlizers. It is This application request renewal of permit, sources are:	me operaring
OOI) Granulator - Scrubber & Cyc	lone 90% chaicanay
002) Dryer/Cooler - Cyclone & Rotos	lone 97.6 900 v
001) Granulator - Scrubber & Cyclone & Rotace 003) Fuel oil tank	
DO4) Phosphoric acid tank	-
ocs) Solfune acid tank	
PWR - (Source 001 \$ 003) 100,000 LB/H	te Max & Aug.
50 Tous	/ttr
Acal & - 1 1 5 L last	24
Applicant submit a stack text reportant application, permit was granted on this show the operation has not changed or	vit unt with a
appreation permit was granted on the	, and unavarion
Substitution of the substi	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
The ID file Show that the FO	s made a visit to
The ID file Show that the Fo the facility (Otis Baner). Look The report been updated. Housekeeping war good, a	indicated TAS has
been updated Housekeeping was good a	id generally the
facily is in compliance (4/25/50).	0 0
recommend grant to r	enewal application.
GRANT 0501 U	
'- ' - - - - - - - - - - 	

Sheet _____ of _____



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RECEIVED

MAY 13 1980

IEPA-DAPC-SPFLD

APPLICATION FOR <u>RENEWAL</u> O	OF AN OPERATING PERMIT		I. D. NO. PERMIT NO.	1630	ENCY USE ONLY DSO AAB DO690
OPERATION OF: Chemical Fertil (SAME AS 9c ON PAGE 2)	lizer	(A)	DATE	_05-	-13 -80
la. NAME OF OWNER: Estech General Chemicals	Corporation	2a. NAME OF Estech		hemicals	Corporation
1b. STREET ADDRESS OF OWNER: 30 N. LaSalle St.			ADDRESS OF OPERATO		
1c. CITY OF OWNER: Chicago		2c. CITY OF Fairmo	operator:		
ld. STATE OF OWNER: Illinois	le. ZIP CODE: 60602	2d. STATE O			2e. ZIP CODE: 62201
3a. NAME OF CORPORATE DIVISION OR PLANT: Estech General Chemicals		2501	ADDRESS OF EMISSIC	ashighu	vav
3c. CITY OF EMISSION SOURCE: Fairmont City	3d. LOCATED WITHIN CITY LIMITS: XX YES \(\square\) NO	3e. TOWNSH	IP:- 3f. CO	ытт: Clair	3g / ZIP CODE: 62201
4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL R. O. Britt	DUAL)	5. TELEPH (618	ONE NUMBER FOR AGES 3) 271-5650		
6. ADDRESS FOR CORRESPONDENCE: X OWNER	EMISSION SOURCE	7. YOUR D	ESIGNATION FOR THIS CHEM FERT	APPLICATION: (B)	
			···		·.
8. THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY SUE BY AFFIXING HIS SIGNATURE HERETO HE FURTH	BMITTED INFORMATION REFER	RENCED IN THI	S APPLICATION REMAI	NS TRUE, CORRECT	E AND CORRECT, AND AND CURRENT.
AUTHORIZED SIGNATURE(S):				>	
BY SIGNATURE	DATE		GNATURE	21/1-	5-12-PO
TYPED OR PRINTED NAME OF SIGNER		TY	R. Payne	•	
TITLE OF SIGNER			ice Presid	ent	
(A) THIS FORM IS TO PROVIDE THE AGENCY WITH 6	GENERAL INFORMATION ABOUT	THE EQUIPMEN	NT TO BE OPERATED.		
(B) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHI DESIGNATION WILL BE REFERENCED IN CORRESP EXCEED TEN (10) CHARACTERS.					
(C) THIS APPLICATION MUST BE SIGNED IN ACCORD "ALL APPLICATIONS AND SUPPLEMENTS THERETO CONTROL EQUIPMENT, OR THEIR AUTHORIZED AG) SHALL BE SIGNED BY THE	OWNER AND OP	ERATOR OF THE EMISS	ION SOURCE OR AI	R POLLUTION
IF THE OWNER OR OPERATOR IS A CORPORATION OF THE CORPORATION'S BOARD OF DIRECTORS A OPERATION OF THE EQUIPMENT TO BE COVERED	AUTHORIZING THE PERSONS S				

		_
FOR AGENCY USE ONLY	03413030	

ALMARONATION (T)

DATA AND INFORMATION INCORPORATED BY REFERENCE FROM CURRENT OPERATING PERMIT
9a. APPLICATION NO.: 0 2 1 0 0 6 9 0
9ь. I.D. NO.: <u>1 6 3 0 5 0 Л А В</u>
gc. OPERATION OF: Chemical Fertilizer
9d. LOCATION: 2501 N. Kingshighway, Fairmont City, Illinois
9e. PERMIT EXPIRATION DATE: 0 5 1 4 8 0
9f. HAS THE OPERATION AS DESCRIBED IN THE REFERENCED OPERATING PERMIT BEEN MODIFIED* AS DEFINED IN RULE 101 OF THE PCB REGS., CHAPTER 2, PART 1? YES X NO
9g. IF "YES" SUBMIT THE APPLICABLE FORMS OR DESCRIBE IN DETAIL THE MODIFICATION OF THE OPERATION.
9h. DATE THE OPERATION WAS MODIFIED:
10 a. IF THE OPERATION IS SUBJECT TO A RULE WHOSE EFFECTIVE DATE IS ON OR BEFORE THE DATE OF THIS APPLICATION, IS SUCH OPERATION IN FULL COMPLIANCE WITH ALL SUCH RULES?
IUD. IF "NO", EXPLAIN:
11. IF YOUR OPERATING PERMIT APPLICATION CONTAINS COMPLIANCE PROGRAM(S). HAS THIS COMPLIANCE PROGRAM BEEN COMPLETED AND HAVE ALL THE PROJECT COMPLETION REPORTS (APC-271) BEEN SUBMITTED?
·
12a. ARE YOU IN COMPLIANCE WITH ALL CONDITIONS OF ALL REFERENCED PERMITS? X YES NO
12b. IF "NO", EXPLAIN:

*MODIFICATION: ANY PHYSICAL CHANGE IN, OR CHANGE IN THE METHOD OF OPERATION, OF AN EMISSION SOURCE OR OF AIR POLLUTION CONTROL EQUIPMENT WHICH INCREASES THE AMOUNT OF ANY SPECIFIED AIR CONTAMINANT EMITTED BY SUCH SOURCE OR EQUIPMENT OR WHICH RESILTS IN THE EMISSION OF ANY SPECIFIED AIR CONTAMINANT NOT PREVIOUSLY EMITTED. IT SHALL BE PRESUMED THAT AN INCREASE IN THE USE OF RAW MATERIALS, THE TIME OF OPERATION, OR THE RATE OF PRODUCTION WILL CHANGE THE AMOUNT OF ANY SPECIFIED AIR CONTAMINANT EMITTED. NOTWITHSTANDING ANY OTHER PROVISIONS OF THIS DEFINITION, FOR PURPOSES OF PERMITS ISSUED PURSUANT TO RULE 103, THE AGENCY MAY SPECIFY CONDITIONS UNDER WHICH AN EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT MAY BE OPERATED WITHOUT CAUSING A MODIFICATION AS HEREIN DEFINED, AND NORMAL CYCLICAL VARIATIONS, BEFORE THE DATE OPERATING PERMITS ARE REQUIRED, SHALL NOT BE CONSIDERED MODIFICATIONS. PCB REGS., CHAPTER 2, PART 1, RULE 101.

NOTE: TO INCORPORATE OTHER CONSTRUCTION PERMITS BY REFERENCE, ATTACH A LISTING OF SUCH PERMITS USING THE FORMAT SET FORTH IN ITEM 9 OR APC-210, "DATA AND INFORMATION -- INCORPORATION BY REFERENCE."



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B.	OGILVIE.	SOVERY
WILLIAM L	. BLASER,	DIRECT

			I.D. NO.		
• OPERA	TING PERMIT APPLICATION	·	PERMIT NO.	。	
				ب نیا	-1
	CHEMICAL FERT		DATE		
NAME OF CHILER:		16. NAME OF COL		m A tre	
SWIFT CHEMICAL O	COMPANY		CHEMICAL COM		-5650
312/431-2533		Zu. TELEPRONE	number of OPERATOR:		-7811
STREET ADDRESS OF OWNER:		36. STREET ADD	RESS OF CPERATOR:	1010) 014	<u> </u>
111 W. Jackson I	Blvd.	2501 No.	rth Kingshigh	wav	
CITY OF CHNER:		4b. CITY OF OP			
Chicago		Fairmont			
STATE OF OWNER:	6a. ZIP CODE:	56. STATE OF O		6b. ZIP CODE	
Illinois	60604 PLANT (IF DIFFERENT FROM OWNER):	Illinoi	<u>.s</u>		62201
DAME OF CORPORATE DIVISION OR I	PLANT (IF DIFFERENT FROM OWNER):				
ELEPHONE NO. OF DIV. OR PLANT	: 9. LOCATED WITHIN CITY LIMITS:	10. STREET ADDI	RESS OF EMISSION SO	HRCF ·	
	YES DNO	l l	Jorth Kingshi		
CITY:	11a. TOWNSHIP:	12. COUNTY:		13. ZIP CODE	
Fairmont City		St. Clai	r		62201
	CATION FOR A PERMIT TO OPERATE THE E CERTIFIES THAT ALL PREVIOUSLY SUBMIT				
TRUE AND CORRECT, AND FURTHER O	CERTIFIES THAT ALL PREVIOUSLY SUBMIT			LICATION REMAIN	IS TRUE, CORRE
RUE AND CORRECT, AND FURTHER (CERTIFIES THAT ALL PREVIOUSLY SUBMIT	TED INFORMATION REF	ERENCED IN THIS APPI	LICATION REMAIN	IS TRUE, CORRE
RUE AND CORRECT, AND FURTHER (CERTIFIES THAT ALL PREVIOUSLY SUBMIT	TED INFORMATION REFI	ERENCED IN THIS APPI	LICATION REMAINION OR PARTNERS	IS TRUE, CORRE
RUE AND CORRECT, AND FURTHER C NT. OWNER (IF I	CERTIFIES THAT ALL PREVIOUSLY SUBMIT	SWIFT EXACT CO	OWNER (IF CORPORAT CHEMICAL COM DREPORATE OR PARTNER:	LICATION REMAINION OR PARTNERS PANY SHIP NAME	SHIP) DATE
RUE AND CORRECT, AND FURTHER CONT. OWNER (IF IN SIGNATURE CHEM YOUR IDENTIF	CERTIFIES THAT ALL PREVIOUSLY SUBMIT NDIVIDUAL) DATE	TED INFORMATION REFI	OWNER (IF CORPORAT CHEMICAL COM DREPORATE OR PARTNER: Viable Gr	LICATION REMAINION OR PARTNERS PANY SHIP NAME	DATE President
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SIGNATURE CHEM YOUR IDENTIF	DATE FERT FICATION NUMBER FINDIVIDUAL) OPERATOR MA	SWIFT EXACT CO BY SIGNATE UST SIGN IF DIFFEREN	OWNER (IF CORPORAT CHEMICAL COM DREPORATE OR PARTNERS JRE E. R. Vra NT FROM OWNER DPERATOR (IF CORPORATE)	ION OR PARTNERS PANY SHIP NAME OUD VICE-I blik TITE	DATE President E RSHIP)
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IF AN OWNER OR OPERATOR IS A CORPORATION, IT MUST HAVE ON FILE WITH THE AGENCY A CERTIFICA COPY OF A RESOLUTION OF ITS BOARD OF DIRECTORS AUTHORIZING THE INDIVIDUALS SIGNING THE APPLICATION TO EXECUTE THIS OPERATING PERMIT APPLICATION AND TO CAUSE OR ALLOW THE CONSTRUCTION, MODIFICATION AND OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

THIS PERMIT APPLICATION CONSISTS OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELCW.

See following pages la, lb, and lc

_	7	• .		
	I.D. NO.	FOR OFFICIA	L USE GALY PERMIT APPLICATIO	о но. с
, · · · ·		GAA 232U0HDAB	CYCLONES	
	BAGHOUSE	PRIMARY CONTROL EQUIPMENT	SECONDARY CONTROL EQUIPMENT	TERTIARY CONTROL EQUIPMENT
	56. METHOD OF PRIOR COOLING:	LIQUID SPRAY	LIQUID SPRAY	LIQUID SPRAY
		EXCESS AIR VOL CFM EXTENDED DUCTWORK	EXCESS AIR VOL CFM EXTENDED DUCTHORK	EXCESS AIR VOL
		1. LENGTH FT 2. DIAMETER IN 3. TYPE OF DUCT MATERIAL 4. THICKNESS OF DUCT MATERIAL IN 5. PAINT COLOR 6. GAS VELOCITY FPS OTHER (SPECIFY)	1. LENGTH FT 2. DIAMETER IN 3. TYPE OF DUCT MATERIAL 4. THICKNESS OF DUCT MATERIAL IN 5. PAINT COLOR 6. GAS VELOCITY FPS OTHER (SPECIFY)	1. LENGTH 2. DIAMETER 3. TYPE OF DUCT MATERIAL 4. THICKNESS OF DUCT MATERIAL 5. PAINT COLOR 6. GAS VELOCITY OTHER (SPECIFY)
-	57. CLEANING METHOD:	a. SHAKER	b. REVERSE AIR OTHER (SPECIFY)	c. REVERSE OTHER (SPECIFY)
7		a	b	c
~	58. TYPE OF CLOTH MATERIAL:	a.	b.	с.
	59.	• Dryer	b. Cooler	c. Dryer/Cooler
\supset	CYCLONE	PRIMARY CONTROL EQUIPMENT	Primary CONTROL EQUIPMENT	Secondary CONTROL EQUIPMENT
6	60. TYPE OF CLONE:	SIMPLE □MULTICLONE	SIMPLE DMULTICLONE	SIMPLE MULTICE
پيد د	61. FOR MULTIPLE UNITS GIVE NUMBER OF CLONES:	a. ·	b. •	c. " 7
٥	62. COME HEIGHT:	a. 96 IN	b. 84 IN	c. 46-1/4
9	63. INLET WIDTH:	a. 18 IN	b. 12 IN	c. 1-5/8
•	64. BODY HEIGHT:	. 60	26	N A

*Type R Roto-Clone serves as secondary control for two individual simple cyclones; one each for dryer and for cooler -- see Drawing $\frac{4}{\pi}102$.

IN

IN

FPS.

FPS

MICRONS

81

32

76

41

30

IN

IN

FPS

FPS

MICRONS

93

30

79

72

30

65. BODY DIAMETER: .

66. OUTLET DIAMETER:

67. INLET VELOCITY:

69. CUT SIZE:

68. EXIT VELOCITY FROM CLONE:

12

12

82

98

,	L 1•0.	NO.						FOR OFFICIAL	USE ONLY				c	
								EXHAL	ST					
	89.	EXHAUST GAS CONTROL EQU IS VEHIED T	IPMENT _		E BUILDING	[<u>3</u>		ERE	90. YÚU	Source		STACK OR VENT:	****	
	91.	HOW ENISSIO	ENS ARE EXH		☐ VENT	92	60 to	1 VELOCITY: 70		F1	- 1	93. GAS EXIT TEMPER 90-115 OF		
	94.	DRAFT CONTR	ROLS:	MANI	UAL		AUTCMATIC	(BAROME	TRIC		OTHER (SPECIFY)		
	95.	HEIGHT OF S	STACK OR VE	NT ABOV	E GRADE:	97	. HEIGHT	OF STACK OR	VENT ABOV	E ROGF:	\top	98. HEIGHT OF TALLE FEST:	ST BUILDING WI	TAIN TE
			55				•	25		·F		53		
	99.	STACK OR VE	ENT SERVES:				<u> </u>			· · · · · ·	1	OO. AREA OF STACK O	R VENT AT EXIT	:
·	٠.	•			ONLY THIS EQUIPMENT		LI OTHE	R EQUIPMENT				7.87	7	. •
2	101.	IF OTHER EN THIS APPLIC TO THIS APP	CATION. THE	APPLICA	ANT SHALL DEF	N CON INE T	ITROL EGUT THE NATURE	PMENT ARE EXP AND QUARTITY	AUSTED TH OF THE E	ROUGH THE S MISSIONS FR	TECK CM SU	OR VENT SERVING THE CH OTHER EQUIPMENT A	EQUIPMENT COVE ND ATTACH SUCH	RED BY IMPORM
4		TOTAL NUMBE	R OF PAGES	IN EXH	IBIT G:								•	
6				•	•				•		•			
	102.	NITROGEN, A	ND HYDROCAR	RBONS (A	S METHANE) EM	MITTE	D FROM ALL	SOURCES LOC	ATED ON TH	IE PLANT OR	PREMI	SULFUR DIOXIDE, CARE SES, INCLUDING THE E THE APPLICANT.		
0		MATERIAL		ONE-H	OUR MAX. AMOU	IN IS	MATERIAL		ONE-HOUR	MAX. AMOUN	IS MAT	ERIAL	ONE-HOUR MAX.	AMOUNTS
		PARTICULATE	E MATTER	3:	5.2	LB	SULFUR DIC	XIDE		1.44	.B NI1	ROGEN OXIDES AS NO2	2.45	5 LB
0		HYDROCARBO	NS AS CH4		-	LB	CARBON MON	JOXIDE			LB	NH ₃ 134	lbs./hr	. шех
\$								EXHAUST GA	S ANALYSIS					
9		TAMINANT	CONCENTA	RATION	EMISSIO	N RAT	TE	METHO	OF MEASL	IRE AND ANA	7515	метно	OD OF MONITORIN	iG .
3	104. CARBO	ON OIOXIDE	a.	PPM	b. [֓֞֞֞֓֓֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֡֓֓֓֡֝֓֡֡֝֡֡֡֡֡֡	/1068TU LB/HR	c.	•			d.	•.	
0	105. CARBO	ON MONOXIDE	3.	PPM	1 -] LB,	/10 ⁶ BTU LB/HR	c.				d.		
	106. CHLO	RINE ¹	a.	PPM	b. [] [8,]	/10ºBTU LB/HR			-		d.		
		OCARSONS S CHI	a.	РРМ] L8/	/106BTU LB/HR	c.				d.		
	108. HYDP(CHLO	ogen Rive	a.	PPM	1 -] [8,	/10 ⁶ BTU LB/HR	c.	-			d.		
	109. HYPS	GEN .	a.	РРМ	1 ' =] LB/	/10 ⁶ 8TU LB/HR	c.			-	d.		
•	110. NITRO	OGEN	a.	PPM			/105BTU L9/HR	c.	-	·		d		
	ALTR OXID	OGEN ES AS NOZ	a.	PPM] [B/	/106BTU LB/HR	c.				d.	•	
•	112.	UR D.OXIDE	a.	PPM	[] LB,	/1068TU LB/HR			,		d.		
	113. OTHE	R (SPECIFY)	a.	PPM] LB/	/10°BTU LB/HR	,	 			d.		
	PART!	ICULATE ER	0.065			1 LB/	/10 ⁶ 8TU L8/HR	Stack c. See E	Tests	২				
. • ′	्यः ज्या	PARTICULATE Ammor		ecsitic lfate	EXPRESSED A	s PEF	arying	eight of EAC proport	COMPONEN	T (COMMON) pending	; cn	HALL BE GIVEN IF CHE		UNKNOWN
		Potas	ssium Ci ium Sul	hlori		ert	ilizer	being fo	rmulat	ed - Se	e e	khibit #4		22



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION ACENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERN WILLIAM L. BLASER, DIRECT

	DA1	A AND INFORMATION		003		FOR OFFICIAL US	SE ONLY
	FOR EXIST	NG COMBUSTION EQUIPMENT AND		503	I.D. NO.		<u> </u>
	1		Steam	Boiler E-1	PERMIT NO. DATE	F	
la.	. HAME OF OWNER:			Th. NAME OF OF			
	Swift Chemical Composite Street ADDRESS OF OWNER:	any		SWIFT C	hemical Co		
20.		lvd.			rth Kingsh		
	CITY OF OWNER:	•		3b. CITY OF O			
	Chicago . State of Owner:	4b. ZIP CODE:		Fairmon		5b. ZIP	
	Illinois	60604	OUNC 2)	Illino	is	6220	J .
6.	TARE OF CORPORATE DIVISION O	K PLANT (IF DIFFERENT FROM	UMREKJI			•	
7.	LOCATED WITHIN CITY LIMITS:	ĭĭ YES □NO		8. STREET ADD 2501 Nor	RESS OF EMISSI th Kingshi	on source: _ghway	
	. ciπ: Fairmont City	9b. LOCATED WITHIN CIT	Y LIMITS:]NO	10: COUNTY: St. Clair	r	11.6220	CODE:
12.	. WAS THE EQUIPMENT DESCRIBED ☑YES IF "NO." STATE WHETHER THE A	□NO PPLICANT HAD. ON OR BEFORE	APRIL 14.	1972. ENTERED INTO) A BINDING AGE	EFFMENT OR CONTRAC	TUAL ORLIGATION TO
1 1 1 1 1	UNDERTAKE AND COMPLETE, WITH THIS INFORMATIONAL FORM:	IN A REASONABLE TIME, A COI	NTINUGUS PR	OGRAM OF CONSTRUCT	TION OR MODIFIC	CATION OF THE EQUI	PMENT DESCRIBED IN
13.	THE APPLICANT SHALL PROVIDE SHOW WHETHER OR NOT THE EMIS OTHER SOURCES LOCATED AT THE POLLUTION.	SIONS OF CONTAMINANTS FROM	THIS EMISS	ION SOURCE, EITHER	R ALONE OR IN C	OMBINATION WITH C	ONTAMINANTS FROM
	IN LIEU OF ONE OR MORE OF SU ENGINEERING STUDIES SUFFICIE TO SHOW WHETHER OR NOT THE E LOCATED AT THE SAME PLANT OR	NT TO ACCURATELY ESTIMATE ' MISSIONS OF SUCH CONTAMINA	THE RATES O NTS. EITHER	F EMISSIONS OF COM ALONE OR IN COMMI	ITAMINANTS FROM	I THIS EMISSION SO	URCE AND FURTHER THER SOURCES
	Reference source for						
		n Engineering Ma					
		f Health, Educati 143; P.539 Table		Wellare	•		
	F. 524 1801e	145; F. 759 Table	14)				
•	2. Chemical Eng P. 9-14 Tab	ineer's Handbook le 9-16	- 4th E	d. •			•
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THESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

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	1.0	. NO	_[1	<u> </u>	1	<u> </u>)1	OR OFFI	LIAL	n28	UNLY		PE	RMIT	APPL	ICATI	On !	i0.	F			!		<u></u>
						•											GENE	RAL I	NFO	RMATI	011												
	. N	OTE:	APPI	CON	NT MI STRU AN A	ICTIO	N P	ERM	IT :	APPL	ICA	(TH FION	REE I FORM	F LO	CATE PARAT	D IN E APP	COOK CO	DUNTY) ON FOR) O RMS	F EAC	H OF EACH	THE ITE	FOL M CF	LOWIN CONT	G: ROL E	QUIP	MENT	NOT (COVE	Ž RED			
		•		DIM DIS RES	ENSI TANC IDEN	ONEC ES T ICES) DR [0 N . L0	IAWI IEAR IDGI	NGS . EST NGS .	PL BOU NU	AN. NDAI RSII	RY OF CH DM	THE MES,	PROP HOSP	PERTY PITAL	ON W	WHERE ! HICH TH HOOLS,	IE CON	NTR	OL E0	UIPM	ENT	IS L	OCATE). ANI	אד מ	ie D: 9	STANCE	FS T	2 S40 O NEA	AEST AEST		
-		8011						107										15.		MODEL 12	NUMI クコ	BER:				16	5 n S	ERIAL 3150)B-	18 E R			
-		Con OPE		T NC		UF B	OIL			<u> 5</u>		DA	rs/wk		46	51	KS/YR	18.		PERCE		All	UAL C-FE	THROU B 25	GHPUT	:		<u>-</u>			SEP	VCH-T	<u> 16:</u>
•	19.	RAT	FD H		111PU 175		00								THOU	SAND 1	BTU/HR	20.		IOTAL Est										iG IN	STALLA	TION)):
	21.	OPE	RAT I		RESSI 95	ÜKE	0F	6011	ER:								PSIG	22.	1	PERCEI		APACI one		ISED F	OR SP	ACE	HEAT	ING:					
	• -				-												GAS	FIREC	D U	NITS													•
i	23.	GAS	BUR	NER I	UNAM	FACT	URE.	R &	MOD	EL 1	NUMB	ER:						24.	6	BURNEF	VOI	.UME :		•	FT ³	25.	. RE	TENTI	ו אס	IME:			<u> </u>
	26.	MAX	IMUM	FIR	ING	RATE	:					SCFI	1	. A	VERA	GE FI	RING RA	TE:				so	FH	28.	AVER		HEAT	CONT	ENT:	;			BTU/F
•	29.	AVE	RAGE	SULI	FUR	CONT	ENT	:			7	BY W		. E:	ST.	ANNUA	L CONSU	MPTIO	N:				CF	31.	EXCE	SS /	AIR:						BY V
	•	•															0	L FIF	RED	UNIT	s				: . <u>.</u>								
•	32.	OIL	BUR	NER I	MANU	FACT	URE	R '&	MOD	EL !	BMUP -	ER:						33.		BURNEF	t VOI	.UME :	:										F
	34.	RET	ENT I	ON T	IME:												SEC	<u> </u>	5	اAX IML 17:	5	1	HOUS	GAA	TU/HR			ERAGE		(ING)		USANO	BTU/
	<u>3</u> 7.	#2	E OF	OIL	:					38.			12114112A 000		NSUM	PTION	: LB	39.		AVERAC	E HI	EAT (NT OF									8TU/1
•	40.	EXC	ESS	AIR:							•		20			2. 8	BY VOL	41.		O.2		JLFUF	CO:		Y WT	2.	. AV	ERAGE N	ASI IL	CON	ENT:		% BY 1
	43.	OIL TYP		NER	[2	X AT	OMI	ZINO	3		STE OR ATO	AM AIB MIZII	*S			HER ECIFY-							44.	D1F	ECT 10			ING: ONTAL			ANGENT	IAL	
)	45.	CON	BUR TROL			[] M	ANU/	N.				AUTOI ON-OI	MAT I	С			UTOMA IGH-L		;			AU1 FUL	CHAT I	C ULATI	ON							
1																		L FIF	RED	UNIT	s							· .					
)	46.	TYP	E OF	COA	L:] ві	TUM:	INOU	s				ANTH	RACITE					OTHE	IFY										
		AVE							r wt		. А	VEKA	E AS	н со	NTEN		K BY WT	1		MIXAP		1). A	VERAG	E FI	RING	RATE:		D 8TU/!
	31.	VOL	ATIL	E CO	NTEN	TS:											E BY WT	•	•	EXCESS	AII	₹:											% BY
	53.	MAX	IMUM	SUL	FUK	CONT	ENT	:									E BY WT		ı	MOISTL	IRE (CONTE	NT:	-									2 BY
•	55.	AVE	KAGE	HEA	T VA	LUE:			•		TU/L	В	56.	IDE	NTIF	Y SOUP	CE OF	COAL	ВҰ	MINE	AND	SEAM	l:			57	7. A	NNUAL	. CO1	ISUMP	ION:		TONS/
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									H	ORIZ	ZONT	•.L] ۷	ERTI	CAL		TANG	EN'	TIAL			COR	ER		SI	PECIF	Y	==			<u></u>	

7	1.0.	. но.				•	OR OFFICIAL	USE ONLY	PERMIT A	*PPLICATION	NO. F							
	<u> </u>				(PRI	OR TO PASS	EXHAUST GAS .	ANALYSIS ANY CONTROL EG	QUIPMENT)	• • •								
-	NOTE	E: IF THE EN VENT, THE	ISSION S	OURCE WHIC	CH IS THE SUBJECT	OF THIS CO	MSTRUCTION I	PERMIT APPLICA	TION IS S	ERVED BY MOI	RE THAN ONE	EXHAUST S	STACK OR					
,	CONT	FAMINANT	CONCENT	PATION	EMISSION R	ATE	METHOD	OF MEASURE AN	ND ANALYSI	s	METHOD OF MONITORING							
	69.	CARBON MONOXIDE	a.	PPM	b.	LB/HR	c.			d.								
	61.	CARBON DIOXIDE	a. 1	.1% PPM	b. 156	LB/HR		le 9-10 rv's 4th	Ed.	d.	No	one		· · · · · · · · · · · · · · · · · · ·				
	62.	CHLORINE	a.	PPM	b	LB/HR	c.	 		d.								
	63.	HYDROCAR- BONS AS CH4	a.	PPM	b	LB/HR	c.			d.		- 						
	64.	HYDROGEN CHLORIDE	a.	PPM	b.	LB/HR	c.	· · · · · · · · · · · · · · · · · · ·		d.		····						
	65.	HYDROGEN SULFIDE	a.	PPM	b.	LB/HR	с.			d.								
	66.	NITROGEN	a.	PPM	b.·	LB/HR	с.			d.		· 						
	67.	NITACGEN OXIDES AS NJ2	a. 24	PPM	b. Est. 0.49) LB/HR	c. Air P	oll. Eng.	- Man	ual d.	·	· · · · · · · · · · · · · · · · · · ·		:				
LO	68.	SULFUR DIOXIDE	a.	РРМ		LB/HR		from fue		d.	No	one						
4	69.	OTHER (SPECIFY)	a.	PPM	b	LB/HR	c.		•	d.								
6	70.	PARTICULATE MATTER	a. 0.04	GRAIN SCF	b.Est. Avg.	- LB/HR		oll. Engi		al d.	d. None							
	71.	PARTICULATE	MATTER	COMPOSITIO	N EXPRESSED AS P	ERCENT BY N			COMMON NA	ME SHALL BE	GIVEN IF CH	EMICAL NA	ME IS UN	(KNOWN):				
0					•	•			•				· ·.					
بـــر ن				-,							·							
0	NOTE	: THIS SECT	ION TO B	E COMPLETE	D ONLY IF EMISSI	ONS ARE EXH	AUSTED DIREC	TLY TO THE AT	MOSPHERE	WITHOUT ANY	CONTROL EQU	IPMENT:	-					
9	72.	HOW EMISSIO	NS ARE EX		VENT 73	. GAS EXIT	VELOCITY:		FPS	74. GAS E	KIT TEMPERAT	URE:		o _F				
9	75.	DRAFT CONTR	OLS:	⊠ MAN	IUAL A	JTOMATIC	☐ BARC	METRIC [OTHER (SPECIFY)								
` `	76.	DISTANCE OF OF THE APPL		CK OR VENT	FROM THE NEARES	T PLANT BOU	INDARY FT.	7. HEIGHT OF	STACK OR	VENT ABOVE	GRADE:			FT.				
0	78.	HEIGHT OF S	TACK OR	VENT ABOVE	ROOF:		FT.	9- HEIGHT OF	TALLEST I	BUILDING WI	THIN 150 FEE	J:		FT.				
	80.	YOUR DESIGN	ATION OF	STACK OR	VENT: Sour	ce #1	8	AREA OF S	STACK OR VI	ENT AT EXIT	0.78			FT ²				
•	82.	IF OTHER ENTHIS APPLICAS EXHIBIT	ATION, T	OURCES OR HE APPLICA	AIR POLLUTION CO	NTROL EQUIP	MENT ARE EXP ONS FROM SUCH	AUSTED THROUGH	SH THE STA MENT AND A	CK OR VENT	SERVING THE INFORMATION	EQUIPMENT TO THIS A	COVERED APPLICATI) BY (N)				
		TOTAL NUMBE	R OF PAG	ES IN EXHI	BIT G:					٠				•				
-	83.	NITROGEN, A	ND HYDRO	CARBONS (A	ESTIMATE OF THE S METHANE) EMITTE APPLICATION, AND	ED FROM ALL	SOURCES LOC	ATED ON THE P	PLANT OR P	REMISES. IN	CLUDING THE							
		MATERIAL		ONE-H	OUR MAX. AMOUNTS	MATERIAL		CNE-HOUR MAX		MATERIAL		ONE -HOUR	R MAX. AF	40UNTS				
		PARTICULAT	E MATTER		_35.2LB	SULFUR DIO	XIDE	1.1		l- <u></u> -	XIDES AS NO ₂	_	2.45	LB				
		HYDROCARBO	NS AS CH	4	L8	CARBON MON	OXIDE	l	LS	™3 -1	34]						

Area=10.34 acres



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706 TELEPHONE 217-525-5811

Richard B. Ogilvie, Governor William L. Blaser, Director

	AIR POLLU	TION EPISODE	ACTION PL	AN TOTAL
NAME O	F INSTALLATION:	•	 	DATE:
,	SWIFT CHEMICAL COMPANY			Jan. 17, 1973
LOCATION	ON OF INSTALLATION - STREET:	CITY OR TOWNSH	IP:	COUNTY:
	2501 N. Kingshighway - (Ill. $\#$	111) Fairmont C	ity	St. Clair
MAILING	G ADDRESS - STREET OR BOX NO.:	CITY:		STATE AND ZIP.
			· · · · · · · · · · · · · · · · · · ·	•
	PERSON TO PE NOTIFIED:	TITLE	OFFICE PHONE	HOME PHONE
1.	Mr. R. O. Britt	Operations Manager	618/271-1208	618/632-2196
		operations Manager	010/2/1-1200	
2	Mr. Bruno Hucher	Production Coordinator	618/271-1208	618/345-6573
) 3	Mr. W. R. Payne	Regional Manager	618/271-5650	618/344-2823
MANUFA	ACTURING PROCESSES: Describe operation	ons or products manufactured.		
		chemical fertilizers		
740	Package and ship of	chemical fetilizers	·	
, ,	·			-
PROCES	S EMISSION SOURCES: List process emis	sion sources.		
7-9	1. Steam Boiler for process	steam in Ammoniator/gr	anulator - Emis	sion Source #1
Ċ	2. Ammoniator/granulator f	• •		
2	3. Dry and cool chemical fe			"
				·
OFUEL CO total.spe	OMBUSTION EMISSION SOURCES: Describe ecify means whereby four-day supply of low	pe combustion equipment, rated hea r-ash and low-sulfur fuel is assured	t input, type of fuel us	ed. If over 10 million btu/hr
>	a. Steam boiler for process			verage 1.375 x 10 ⁶ Btu
>	b. Direct heat combustion for	or chemical fertilizer	- 9.8 million B	tu/hr. (max.)
	The foregoing burn $\#2$ fue on or before Dec. 31, 197			
•	below 0.28%.	5 the #2 itel oil will	be supplied wit	n surrur content
	BURNING OR INCINERATION DEVICES:		type of control device	if installed, specify what
preparati	ions have been made to store or handle a fo	ur-day accumulation of refuse.		
	Refuse hauled away by con	tract scavenger service		• .
			•	
			· · · · · · · · · · · · · · · · · · ·	
REMARK	72:	•		
•				
•	-	· ·		
				
1 :	PERSON PREPARING PLAN		LEGALLY RESPONS	IBLE OFFICIAL
19	Signature / Koar	al-	Signature ER	Vrablik
	m C Voores		ਜ	P. Vmohlite
	Name (printed) T. C. Kearns		Name (printed)	. R. Vrablik
	Title Director, Technical Se	rvices	Title Vice-P	resident
1 EC. 100	1 (D (T.))	•		. 26

YELLOW ALERT REQUIREMENTS

Fuel combustion emission sources rated in excess of 10 million btu hr shall use fuel with a sulfur content of less than 1.0% (0.8% for resifuel oil, 0.3% for distillate fuel oil). Open burning prohibited. Boiler lancing, soot blowing, and incineration with control devices authorized only between 12:00 noon and 4:00 p.m. All special operating permits, variances, and programs of delayed compliance for manufacturing facties suspended. No action required of process emission sources meeting Illinois emission standards.

Indicate actions which will be taken to meet requirements:

Notify Shift Supervisors to begin yellow alert actions. Operations that can be conveniently closed down will be stopped. Mixed fertilizer operation will be reduced from 22 to 16 TPH. These actions can be put into effect within 2 hours after notification.

Plant does not practice open burning. Fuel oil, LPG, Propane and gasoline only fuels used.

No boiler lancing is ever required.

Estimated Operations Reduction

20%

Estimated Emissions Reduction

ک√م²

RED ALERT REQUIREMENTS

Continue all Yellow Alert actions. Operation of manufacturing process emission sources, including steam generators shall be curtailed to greatest extent possible without causing injury to persons or severe damage to equipment. All incineration is now prohibited.

Indicate actions which will be taken to meet requirements:

Continue all yellow alert actions and completely stop Chemical Fertilizer mixing operation including shutting down boiler for process steam if temperature above $32^{\circ}F$.

Plant-has no incinerator and does not practice open burning. Refuse is hauled away by a contract scavenger.

Estimated Total Operations Reduction

- 03

Estimated Total Emissions Reduction

75

EMERGENCY REQUIREMENTS

Continue Yellow and Red Alert actions. Non-essential use of electricity and motor vehicles prohibited. Buildings heated to 65° F or less. All manufacturing and most industrial, commercial, governmental, educational, and recreational facilities now curtail or cease operation.

Indicate actions which will be taken to meet requirements:

Stop all operations, including raw materials unloading, product packaging and shipping. Will shut off boiler and heater units if temperature above 32°F. All lights and air-conditioners to be turned off. Suspend all tractor and lift truck operations. Automobile and truck use by personnel to be limited to emergency needs.

INDEX CONTINUED Fairmont City

Ç	Exhibit-6	Particulate Size Distribution to Cyclones From Cooler and Dryer - Wilmington, N.C. Test	1	29
	Exhibit-7	Particulate Size Distribution to Cyclones From Cooler and Dryer - Savannah, Ga. Test	1	30
	Exhibit-8	Particulate Size Distribution to Cyclones From Cooler and Dryer - Charleston, S.C. Test	1	31
٠.	Drawing No.103	Zoning Map	1	32
	Drawing No.101	Emission Source Map	1	33
	Drawing No.102	Process Flow Diagram	1	34
0	Drawing No.104	Process Instrumentation Diagram	1	35
0	Addendum-A	Process Equipment and Instrumentation Code used in Drawings #102 and #104	1	36
	Drawing No.105	Plot Plan	1	37
0	APC-66	Addendum A - Data and Information for Existing Emission Source - #6 and #12 Fan Data	1	38
9 9	APC-76	Addendum F - Data and Information for Existing Emission Source (Tank - fuel oil)	1	39
 	APC-76	Addendum F - Data and Information for Existing Emission Source (Small liquid Anhydrous Ammonia Tank)	1.	40
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6.4.	:-86	Data and Information for Existing Combustion Equipment and Indirect Heating (Dryer Burner E-2)	3	45-47
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APO	2-103	Addendum L - Disposition of solid waste from dry collectors	·.	51
Ext	nibit S	Description of the Process which results in the production of solid recycle (waste) material		52
Ext	nibit T	Description of Recycle material from dry collectors		53
C Ext	nibit W	Description of Reclaiming Process		54

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14.	The applicant shall submit a plot plan and map showing distances to the nearest boundary of the property on which the operation is located and distances to the nearest residences, lodgings, nursing homes, hospitals, schools and commercial and manufacturing establishments, and attach this plot plan and map to this application.
15.	The applicant shall submit a process flow diagram depicting all emission sources and all air pollution control equipment covered by this Uperating Permit application. The diagram shall include labels for each source and equipment, and shall set forth maximum flow rates for (1) all processing equipment, (2) all air pollution control equipment, (3) all emission sources and (4) all stacks and vents.
٠	Number of sheets: 2 Drawing number(s): 102 and 104
16.	If the applicant is incorporating by reference previously granted Installation or Construction Permits, he shall complete Form APC-93, entitled "Previously Granted Installation or Construction Permits Incorporated by Reference."
	Total number of Forms APC-93 included with this application:
17.	For each existing emission source (other than fuel combustion sources or incinerators) not covered by a previously granted Installation or Construction Permit, the applicant shall complete Form APC-64, entitled "Data and Information for an Existing Emission Source."
	Total number of Forms APC-64 included with this application:
18.	For each existing fuel combustion source <u>not</u> covered by a previously granted Installation or Construction Permit, the applicant shall complete Form APC-86, entitled "Data and Information for Existing Combustion Equipment and Indirect Heating."
	Total number of Forms APC-86 included with this application:
19.	For each existing incinerator not covered by a previously granted Installation or Construction Permit, the applicant shall complete Form APC-92, entitled "Data and Information for Existing Incinerators."
,	Total number of Forms APC-92 included with this application:
20 .	For each existing item of air pollution control equipment <u>not</u> covered by a previously granted Installation or Construction Permit, the applicant shall complete Form APC-62, entitled "Data and Information for Existing Air Pollution Control Equipment" (for Electrostatic Precipitators use Form APC-90, entitled "Data and Information for Existing Electrostatic Precipitators").
	Total number of Forms APC-62 included with this application:2
	Total number of Forms APC-90 included with this application:
21.	If the startup of any emission source covered by this application produces contaminants which exceed the applicable emission standards, the applicant shall complete Section "A" of Form APC-94, entitled "Operation During Malfunctions, Breakdowns, or Startups."
	Total number of Forms APC-94 included with this application:O
22. .	If the applicant is applying for permission to operate any emission source during malfunctions or breakdowns pursuant to Chapter 2, Rule 105, he shall complete Section "B" of Form APC-94, entitled "Operation During Malfunctions, Breakdowns, or Startups."
	Total number of Forms APC-94 included with this application:O
23.	If all or any part of the manufacturing process which is the subject of this Operating Permit application must be controlled or otherwise modified to comply with applicable substantive Regulations, the applicant shall complete Form APC-95, entitled "Compliance Plan."

25. State whether each of the applicant's emission sources covered by this application was, as of April 14, 1972, operating within the applicable limitations of the "Rules and Regulations Governing the Control of Air Pollution," adopted by the former Air Pollution Control Board and continued effective pursuant to Section 49(c) of the Environmental Protection Act. YES

24. Does the operation covered by this application require an Episode Action Plan? ☐ YES ☐ NO

For each such emission source in compliance as of April 14, 1972, state the basis for your conclusions and attach your statements as Exhibit B.

If "Yes", give the date such plan was filed with the Agency (if it has not been filed, the applicant shall complete Form APC-100, entitled "Enisode Action Plan").

See attached Exhibit B(2) and B(3)

Date Plan submitted: 9/30/72

Page 2 of 3

	attach your statements as Exhibit C.	as of April 14, 1972, state the basis for your conclusions and
	Total number of pages in Exhibit B: 3	
	Total number of pages in Exhibit C:	•
26.	Was the applicant's operation the subject of a on or before June 13, 1972? ☐ Yes ☒ No	variance petition filed with the Illinois Pollution Control Board
	If "Yes", cite PCB number(s):	Date of Board Order:
	tions sufficient to achieve compliance with the	pril 14, 1972, commenced construction of equipment or modifica- applicable limitations of the "Rules and Regulations Governing ormer Air Pollution Control Board and continued effective Protection Act.
·· •	፟፟፟፟፟፝X Yes □ No	
	If "No", explain in detail and attach your expl	anation as Exhibit D.
	Total number of pages in Exhibit D:	



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD 8. OGILVIE, GOVERNO: WILLIAM L. BLASEK, DIRECTOR

				٠-١٠ مع
		201		FOR OFFICIAL USE ONLY
	DATA AND INFORMATION	001	1.D. NO.	
	FOR EXISTING	S01	1.b. no.	
	EMISSION SOURCE	#6	PERMIT NO.	s
	Granul	ator Scrubber	DATE	
la. NAME OF OWNER		1b. NAVIE OF OF	ENATOR.	
	FT CHEMICAL COMPANY		CHEMICAL (CCMPANY
2a. STREET ADDRES		26. STREET ADD	RESS OF OPERATOR:	
	West Jackson Blvd.		rth Kingshi	ghway
3a. CITY OF OWNER		3b. CITY OF OP		•
4a. STATE OF OWNE	CACO ER: 4b. ZIP CUDE:	Sa. STATE OF O	mont City	56. ZIP CODE:
	inois 60604	Ja. Sikie or o		62201
	DRATE DIVISION OR PLANT (IF DIFFERENT FROM UNNI		015	OCCOI
	·	•		
7. LOCATED WITHIN		6	RESS OF EMISSION	
	KYES NO		rth Kingshi	
9. CITY:		10. COUNTY:		11. ZIP CODE: 62201
. 12. WAS THE EQUIPM	rmont City MENT DESCRIBED IN THIS INFORMATION FORM INSTALL	ED AT THE DIANT OD ODENIS	Clair	NT ON OR RESORT APPRIL 14 10723
. 12. WAS THE EQUITE		LD AT THE PLANT OR PRENTS	ES OF THE APPLICA	NI ON OR BEFORE APRIL 14, 1972?
, .	X YES NO	•••••		
THIS INFORMATI	YES NO SHALL PROVIDE THE RESULTS OF TESTS CONDUCTED I	: N ACCORDANCE WITH APPLICA	RLF REGIMATIONS O	F CHAPTER 2. AIR POLITITION, WHICH
SHOW WHETHER COURCES POLLUTION. IN LIEU OF ONE ENGINEERING ST TO SHOW WHETHE	OR NOT THE EMISSIONS OF CONTAMINANTS FROM THIS LOCATED AT THE SAME PLANT OR PREMISES OF THE A CONTROL OF SUCH TESTS, THE APPLICANT MAY SUBMITUDIES SUFFICIENT TO ACCURATELY ESTIMATE THE RATE OR NOT THE EMISSIONS OF SUCH CONTAMINANTS, ESTAME PLANT OR PREMISES OF THE APPLICANT, COMP	EMISSION SOURCE, EITHER A PPLICANT, COMPLY WITH APP HIT OTHER STANDARD TESTING TES OF EMISSIONS OF CONTA THER ALONE OR IN COMBINA	LONE OR IN COMBIN LICABLE SUBSTANT! INFORMATION OR TH MINANTS FROM THIS TION WITH CONTAME	ATION WITH CONTAMINANTS FROM VE REGULATIONS OF CHAPTER 2, AIR HE DETAILS AND RESULTS OF EMISSION SOURCE AND FURTHER NAMES FROM OTHER SOURCES
)		••		
See See	attached summary of six (6) s	tack emissión te	sts on sour	ce operation #6,
o como gra	nulator scrubber stack. Exhib	it B(2)		
				TO THE TOTAL OF THE COMMENTANCE OF T
			To article of the transfer	and the second of the second o
•				•
عالى المناسبة المناسبة المناسبة				1
	N. C.			
	one de la companya d La companya de la co			The second series of the contraction of the second
•		•		••
•	and the second of the second o			

THESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

Exhibit B(2) Summary of stack emission tests - source operation #6 (1 page) Ammoniator/Granulator

Exhibit 4 Composition of raw materials used - 1 Page

Exhibit 5 Name of products manufactured - 2 Pages

Granula	ator	Scrubb	er
Source	נפת0	cation	= :/-

				Source Opera:	tion	<u>=}6</u>	
1.0. NO.			OR OFFICIAL USE ONLY	PERMIT APPLICATION NO.	s		
62.			GENERAL INFORMATION		•		
منتثن با	NOTE.	ADDITIONT MIST SURMET THE CODIES	THOSE IS LOCATED IN COOK CO	INTY) OF EACH OF THE FOLLOW	ateg -		

NOTE: APPLICANT MUST SUBMIT TWO COPIES (THREE IF LOCATED IN COOK COUNTY) OF EACH OF THE FOLLOWING:

- CONSTRUCTION PERMIT APPLICATION FORM (SEPARATE APPLICATION FORM FOR EACH EMISSION SOURCE NOT COVERED BY AN ATTACHED ADDENDUM).
- DIMENSIONED DRAWINGS, PLAN, ELEVATION (SECTIONED WHERE NECESSARY AND WHERE APPLICABLE), PLOT PLAN AND MAP SHOWING DISTANCES TO NEAREST BOUNDARY OF THE PROPERTY ON WHICH THE EMISSION SOURCE IS LOCATED AND THE DISTANCES TO NEAREST RESIDENCES, LODGINGS, MURSING HOMES, HOSPITALS, SCHOOLS AND COMMERCIAL AND MANUFACTURING ESTABLISHMENTS.

15. NAME OF EMISSION SOURCE EQUIPMENT:

MAXIMUM AMOUNT OF WASTE MATERIALS PRODUCED.

2400

b. Estimated 3300* LB/HR

PERCENT OF ANNUAL THROUGHPUT:
DEC/FEB 25 % MAR/MAY 45

LB/HR

LB/HR

3. FLOW DIAGRAM AS SPECIFIED IN THE INSTRUCTION SHEET.

Exhibit 5

Chemical Fertilizer-Ammoniation/Granulator	Ammoniator	/Granulator	
16. EMISSION SOURCE EQUIPMENT MANUFACTURER:	17. MODEL NUMBER:		18. SERIAL NUMBER:
Walter Renneburg & Sons	N.A.	•	None
19. NUMBER OF IDENTICAL EMISSION SOURCES:	20. TYPE PROCESS:		
1	1	CONTINUOUS	☐ BATCH
21. PROCESS WEIGHT RATE:	22. EATCH RATE:		
Min. 26,000 - Max. 100,000 LB/HR	1	BATCH,	
23. COMPOSITION OF RAW MATERIALS USED IN THE PROCESS AND PERCENT OF E	ACH BY WEIGHT (COMMON !	AME SHOULD BE GIV	VEN IF CHEMICAL NAME IS UNKNOWN
			·
See attached Exhibit #4			•
•	• • •		• * * * * * * * * * * * * * * * * * * *
	•		
		and the second second	en de la companya de La companya de la co
	•		
• .			
	T MANAGEM OCCUPATION	2475 500 5444 1	ESTIMATED AUGUSTS ADORUGISM
24. NAME OF PRODUCTS MANUFACTURED:	MAXIMUM PRODUCTION PRODUCT:	RATE FUR EACH	ESTIMATED AVERAGE PRODUCTION RATE OF EACH PRODUCT:
.Agricultural Plant Food - See Exhibit 5	b. <u>50,000</u>	LB/HR	c. <u>44,000</u> L
d. Heavy Weight Garden Line Grades - See	e. <u>5</u> 0,000	LB/HR	f. 44,000 L
<u> </u>			
.Jight Weight Garden Line Grades - See	h: 26,000	LB/HR	1. 24,000 i

* Returned to process as part of dry solids - (not recycle fines)

Dry Tailings from Clean-up of Spills

WASTE MATERIALS FROM MANUFACTURING PROCESS:

AYERAGE OPERATION TIME OF EMISSION SOURCE DAYS/WK . 46

Wet Tailings from Scrubbers

ESTIMATED AVERAGE AMOUNT OF WASTE MATERIALS PRODUCED.

JUNE/AUG 74 5 SEP/NOV 7

2200

1800

1.0.	иэ. 📗				F	OR OFFICIAL	USE ONLY	PERMIT 2	APPLICATION	NO S		
1000						XHAUST GAS ON SOURCE TO	ANALYSIS CONTROL EQUI	MENT)				
(E	: IF THE EM	ISSION SOUR	RCE WHIC SHALL C	H IS THE SUBJ OMPLETE SEPAR	ECT OF THIS CO	NSTRUCTION EACH SUCH	PERMIT APPLICA STACK OR VENT	TION IS SE	ERVED BY MO	RE THAN ONE I	XHAUST STA	ACK ÇR
CONT	AMINANT	CONCENTRAT	1011	EMISSIO	II RATE	МЕТНОО	OF MEASURE AN	ID ANALYSI	s	METHO	OF MONITO	ORING .
28.	CARBON MONOXIDE	a.	PPM	b.	L8/HR	c.			d.			
29.	CARBON DIOXIDE	à.	PPM	b.	L8/HR	c.			d.			
30.	CHLORINE .	a.	PPM	b	LB/HR	c.			đ.			
31.	HYDROCAR- BONS AS CH4	a.	PPM	b.	LB/HR	c.			d.			****
32.	HYDROGEN CHLORIDE	a.	PPM	b.	LB/HR	c.			d.			
33.	HYDROGEN SULFIDE	a.	PPM	b.	LB/HR	с.		· · · · · · · · · · · · · · · · · · ·	d.			· · · · · · · · · · · · · · · · · · ·
34.	NITROGEN	a	PPM	b.	LB/HR	c.		 	d.	· · · · · · · · · · · · · · · · · · ·		
35.	NITROGEN OXIDES AS NO2	a.	PPM	b.	LB/HR	c.	·		d.			
36.	SULFUR DIOXIDE	a.	PPM	b.	LB/HR	с.			d.			
37.	OTHER 3	a. 1600 8000	t OppM	Range i 27 to 1	rom LB/HR	c. Mate	erials Ba Calcs	lance	d.	·		·
38.			GRAIN SCF	^b 2.2	LB/HR	c. Tes	ts	- 	d.			···
39.	PARTICULATE	MATTER COM	1POSITIO		S PERCENT BY N	EIGHT OF EA	CH COMPONENT (COMMON NAM	ME SHALL BE	GIVEN IF CHE	MICAL NAME	IS UNKNOWN):
	Primari	ly Ammo	onium	Chloride	, NH4Cl,	which c	ontains 2	6% N ar	nd 66% (L	•	
انون ر	——————————————————————————————————————	·		······································	······································			· ·	`		•	
D NOTE	: THIS SECT	ION TO BE (OMPLETE	D ONLY IF EMI	SSIONS ARE EXH	AUSTED DIRE	CTLY TO THE AT	MOSPHERE 1	WITHOUT ANY	CONTROL EQU	IPMENT:	\
40.	HOW EMISSIO	NS ARE EXHA		VENT	41. GAS EXIT	VELOCITY:		FPS	42. GAS E	CIT TEMPERATU	IRE:	o _F
2 43.	DRAFT CONTR	OLS:	☐ MAN	UAL [AUTOMATIC	☐ BAR	OMETRIC · [OTHER (S	SPECIFY)		·	
44.	DISTANCE OF OF THE APPL		OR VENT	FROM THE NEA	REST PLANT BOU	NDRY FT.	45. HEIGHT OF	STACK OR	VENT ABOVE	GRADE:		FT.
45.	HEIGHT OF S	TACK OR VEN	NT ABOVE	ROOF:	-	FT.	47. HEIGHT OF TALLEST BUILDING WITHIN 150 FEET: FT.					
48.	YOUR DESIGN	ATION OF ST	TACK:	·			49. AREA OF S	TACK OR VE	ENT AT EXIT	:		FT ²
50.		ATION, THE			CONTROL EQUIP NE THE EMISSIO							
	TOTAL NUMBE	R OF PAGES	IN EXHI	BIT G:								
51.	NITROGEN, A	ND HYDROCAS	RBONS (A	S METHANE) EM	THE MAXIMUM ON HITTED FROM ALL AND THE AREA	. SOURCES LO	CATED ON THE P	LANT OR PE	REMISES, "IN	LUDING THE E		
	MATERIAL		ONE-H	OUR MAX. AMOU	NTS MATERIAL		ONE-HOUR MAX		MATERIAL			AX. AMOUNTS
•	PARTICULAT			35.2	_ LB SULFUR DIO		1 -1:		ł	CIDES AS NO2		2.45
	HYDROCAREC	- AS CH4	<u> </u>		LB CARBON MON	IUXI UE	<u> </u>	L5	1.4.3	-5. 100/1		

Area: 10.34 acres

APC-64

EXHIBIT - 4

(Item 23)

Composition of raw materials used in process and range in percent by weight for all products when used in formulation

	•					
		•	Range lbs/ton Pr	in oduct	Range Weight Pe	
		Composition	Min.	Max.	Min.	Max.
	Triple Super phosphate	46%-P ₂ 05	25	921	1.25	46.00
,	Diammonium Phosphate	18-46-0	274	583	13.70	29.20
	Phosphoric Acid	54% P.05	21	460	1.05	23.00
ထ	Sulfuric Acid	66° Be	25	250	1.25	12.50
N	Anhydrous Ammonia	82% n	25	122		
6	Sulfate of Ammonia	21% N	. 63	_900	3.15	45.00
	Muriate of Potash	60%-K20	128	1000		50.00
	Sodium Borate	65%		50	-	2.50
0	NEL (A minenutrient blend)	Comprises Zn, Mn,Cu & Fe Sulfate	-	15	-	0.75
9	Sand	Riverbed Sand	51	364	2.55	18.20
ج ج	МАР	13-52-0	154	385	7.70	19.25
0	HADU (IsoButyl, Diurea)	31%N		1034	-	51.70
	Sulfate of Potash	50% K ₂ 0	-	407	-	20.35
	Sulfate Potash of Magnesia	•	138	166	6.90	8.30
	Ferro Fritz (Micronutrient Blend	.)		34	• · ·	1.70
	Ferrous Sulfate		5	80	0.25	4.00
	Urea	46% N	-	356	-	17.80
	Vermiculite (Bulking Agent)		270	416	13.5	20.8 0

(Item 24)

NAME OF PRODUCTS MANUFACTURED

(a) Agricultural Plant Food

	Trade Mark Name		Guaz	ant	teed	Ana	lysis		
	Red Steer		(N) 15	··· (10 10	5)	(K ₂ 0	0)	
	Red Steer		14	-	14	-	14		
	Red Steer (In process flow diagram, drawing	ng #102)	12	-	12	-	12	Example: In Proc Flow Diagram	cess
6	Red Steer		8	-	32	-	16	110" Diagram	
N	Red Steer		6	-	24	-	21	4	
<u>ه</u>	Red Steer		_5		20	-	20		
*****	Brimm		6	- .	24	<u>-</u> ·	24		
0	Certified Harvest King		7	-	28	-	7	-	
် ပ	Certified Harvest King		7	-	21	-	21		
9	Certified Harvest King		5	_	25	-	15		
\$	Certified Harvest King		3	-	10	-	30		
3	Certified Harvest King		0	-	10	-	30	·	
0	(b) Garden Line (Heavy Weight)								
	Par-Ex (Swift Agricultural Chemical)	-	24	-	4	-	12		
	Par-Ex (Swift Agricultural Chemical)	•	24	-	0	-	12		
	K-Mart (Private Label)		20	-	10	-	5	·	
	K-Mart (Private Label)	÷	10	-	10	-	10		
	K-Mart (Private Label)		10	-	6	-	4		
	Otasco (Private Label)		10	-	20	-	10		
	All-Purpose Vigoro (Swift Agricultural Ch	emical)	10	_	6	-	4	•	

EXHIBIT - 5 (Continued)

	Guaranteed Analysis							
	(n)	(P ₂ 0 ₅	;)	(K ₂ 0)				
(c) Garden Line (Light Weight)								
Golden Vigoro (Swift Agricultural Chemical)	24	- 4	-	8				
Earl May (Private Label)	24	_ 4	-	8				
K-Gro (Private Label)	23	- 7	-	7				
Vigoro (Swift Agricultural Chemical)	10	- 6	- ·	4				



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR WILLIAM, L. BLASER, DIRECTOR

		DATA AND INFORMATION FOR EXISTING EMISSION SOURCE #12 Dryer/Cooler Scr	002 S02	I.D. NO. PERMIT NO. DATE	FOR CFFICIAL USE ONLY C
la.	NAME OF CUNER: Swift Chemical Con	npany	16. NAME OF O	PERATOR: hemical Com	oany
	STREET ADDRESS OF OWNER: 111 West Jackson	Blvd.	2501 No	oress of oferator rth Kingsh	ighway
3a.	CITY OF CWNER: Chicago		36. CITY OF OF Fairmon		•
4a.	STATE OF DAMER: Illinois	45. ZIP CODE: 60604	5a. STATE OF (Illinoi	OPERATOR: S	5b, ZIP COOE: 62201
6.	NAME OF CURPORATE DIVISION C	OR PLANT (IF DIFFERENT FROM OWNER):			
7.	LOCATED WITHIN CITY LIMITS:	☐YES □110	8. STREET ADD 2501 IV	ORESS OF EMISSION Orth Kingsl	SOURCE: highway
. 9a. ∽	CIT: Fairmont City	9b. LOCATED WITHIN CITY LIMITS: ☐YES ☐ NO	10: St. Cl		11. ZIP CODE: 6220 1
	THE APPLICANT SHALL PROVIDE SHOW WHETHER OR NOT THE EMISOTHER SOURCES LOCATED AT THE POLLUTION. IN LIEU OF ONE OR MORE OF SUENGINEERING STUDIES SUFFICIE TO SHOW WHETHER OR NOT THE ELOCATED AT THE SAME PLANT OR See attached summer Dryer/Cooler Scrutthe emissions test	APPLICANT HAD, ON OR BEFORE APRIL 14, HIN A REASONABLE TIME, A CONTINUOUS PROTECTION OF THE RESULTS OF TESTS CONDUCTED IN ACCOUNTS OF CONTAMINANTS FROM THIS EMISS. E SAME PLANT OR PREMISES OF THE APPLICANT MAY SUBMIT OTHER TO ACCURATELY ESTIMATE THE RATES OF MISSIONS OF SUCH CONTAMINANTS, EITHER REPREMISES OF THE APPLICANT, COMPLY WITH ALL OF THE PREMISES OF THE APPLICANT AND THE PREMISES OF THE PREMISES OF THE APPLICANT AND THE PREMISES OF THE PREMISES OF THE PREMISES OF THE APP	ORDANCE WITH APPLION SOURCE, EITHER ANT, COMPLY WITH A LONG TO THE STANDARD TEST! F.EMISSIONS OF COMALONE OR IN COMBIT APPLICABLE SUBSICH APPLICAB	ICABLE REGULATIONS R ALONE OP IN COME APPLICABLE SUBSTAN ING INFORMATION OF ITAMINANTS FROM TH INATION WITH CONTA STANTIVE RESULATION Tests on organization tober 5, 19	SOF CHAPTER 2, AIR POLLUTION, WHICH BINATION WITH CONTAMINANTS FROM NTIVE REGULATIONS OF CHAPTER 2, AIR RETURN THE RESULTS OF HIS EMISSION SOURCE AND FURTHER AMINANTS FROM OTHER SOURCES ONS OF CHAPTER 2, AIR POLLUTION. SOURCE OPERATION #12, ions are enclosed for* 71. Illinois EPA
• •	*These were fu September 30,	urnished with original Ope 1972, to Ill.EPA	erating Perm	nit Applicat	ion mailed on

ESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

Exhibit - 3, Summary of Stack Emission Tests - Source Operation #12 Dryer/Cooler_1 page

	1.D.	NO					FOR OFF	CIAL US	E ONLY	PERMIT APPLICATI	ON NO.	s	
(- N						GENERAL	INFORM	ATION			***	
/::	في		NOTE:	APP	ICANT	MUST	SUBMIT TWO COPIES (THREE	IF LOCA	TED IN COOK COUN	TY) OF EACH OF T	HE FOL	LOWING:	
	•		-	1.			N PERMIT APPLICATION FORM BY AN ATTACHED ADDENDUM		ATE APPLICATION	FORM FOR EACH EM	ISSION	SOURCE	
			·		PLOT SOURCE SCHOOL	PLAN A E IS L LS AND	DRAWINGS, PLAN, ELEVATION MAP SHOWING DISTANCES OCATED AND THE DISTANCES COMMERCIAL AND MANUFACT IM AS SPECIFIED IN THE IN	TO NEAR TO NEAR JRING E	EST BOUNDARY OF EST RESIDENCES, STABLISHMENTS.	THE PROPERTY ON	WHICH	THE EMISSION	
-	14.	NAME OF PROCESS:				 :	& Cooler Operation	15	NAME OF EMISS	ion source equip	MENT:	······································	
_		EMISSION SOURCE					r ocoter operation	17.		yer and Co		SERIAL NUMBER:	
	F	Edward Renne	burg	& S	ons	Co.			N.A.	·		N.A.	
_		NUMBER OF IDENTI		SSION	SOURC		1.		TYPE PROCESS:	CONTINUOUS	· · · · · · · · · · · · · · · · · · ·	☐ BATCH	
	21.	PROCESS WEIGHT R	RATE: - Man	۲. I	00.0	000	LB/HR	22.	EATCH RATE:	BATCH	I/HR		LB/
-	23.						PROCESS AND PERCENT OF	ACH BY	WEIGHT (COMMON 1	IAME SHOULD BE GI	VEN IF	CHEMICAL NAME IS U	NKHOWN)
- 9 3	ан - 1 -			· .			d to APC-64(B)	•• ••			•		- · .
\bigcirc	24.	NAME OF PRODUCTS	MANUFA	CTURE	D:				CIMUM PRODUCTION	RATE FOR EACH		IMATED AVERAGE PRODUCT:	CTION
		. Agriculti	ural l	Plan	t Fo	od-S	See Exhibit 5	b.	50,000	LB/HR	c.	44,000	LB,
0	•	d. Heavy We	ight (Gard	len I	ine	Grades-See	e.	50,000	LB/HR	f.	44,000	LB,
9 9	:	.g. Light We	ight (Gard	len I	ine	Grades -See	h.		LB/HR	1.		LB,
۔ پی_	25.	WASTE MATERIALS	FROM MA	NUFAC	TURING	PROCE	ESS:	•	CIMUM AMOUNT OF I			IMATED AVERAGE AMOUNTE MATERIALS PRODUCE	
0	•	. Dry Tai	lings	fro	m Sp	ill	s Cleanup	ь.	Est.3300*	LB/HR	c.	2200	LB,
		d. Wet Tail	lings	fro	m Sc	rub	bers	e.	2400	LB/HR	f.	1200	LB,
		g						h.		LB/HR	1.		LB/
-	26.	AVERAGE OPERATION HRS/DAY	ON TIME	OF EM	15510N 157WK	SOUR	CE: UB WKS/YR	27.	PERCENT OF ANN DEC/FEB 25	UAL THROUGHPUT:		JUNE/AUG 74 5 SE	P/NOV <u>] (</u>

* Returned to process as part of dry solids - (not recycle fines)

1.0.	. кэ. 📘	<u> </u>				ř	OR OFFICIAL	. USE ONLY	PERMIT	APPLICATION	NO. S			
				-	(FI		XHAUST GAS IN SOURCE T	ANALYSES O CONTROL EGUI	(PMENT)			1 1940		
(E: IF THE EX VENT, THE	IISSION SOUR APPLICANT	CE WHIC SHALL (H IS THE	SUBJECT SEPARATE	OF THIS CO SHEETS FOR	NSTRUCTION EACH SUCH	PERMIT APPLIC STACK OR VENT	ATION IS S	ERVED BY MOR	E THAN ONE	EXHAUST S	TACK OR	
CONT	FAMINANT	ceggirei	1011	EI	IISSION RA	ATE T	METHO	OF MEASURE A	ND ANALYSI	s	METHO	D OF MONI	TORING	
28.	CARBON MONOXICE	a. None	PPM	b.	0	L8/HR	с.			d.	None			
29.	CARBON DIOXIDE	a. 750	PPM	b.	128	LB/HR	c.Comou	stion dat below	a in r	erençe	None			:
30.	CHLORINE .	a. None	PPM	b.	0	LB/HR	с.			d.	None			
31.	HYDROCAR- BONS AS CH4	a.	PPM	b.		LB/HR	c.			d.	None			
32.	HYDROGEN CHLORIDE	a. None	РРМ	b.	0	LB/HR	с.	·		đ.	None			
33.		a. None	PPM	ь.	0	LB/HR	c.		····	d.	None			
34.		a. 78%	PPH	b. 8h	,280	LB/HR	c.			d.	None			
35.	HITROGEN DXIDES AS NO2	2.3	PPM		,200	LB/HR	-	stion dat	a in r	eference				
	SULFUR DIOXIDE	a. 23	PPM	b. max	 5 . 8	LB/HR	c.Combu	stion dat		d.	None			
37.	OTHER	a. 0 ₂ =20	P PPM		4,698	LB/HR	c.	5	1.9-0	d.	none			
38.	(SPECIFY) PARTICULATE MATTER	å. 10	GRAIN SCF	 	142	LB/HR	c. Stac	k Tests		d.	None			
aries	PARTICULATE s with g	MATTER, COM	ng m	on express	SED AS PE	RCENT BY W	EIGHT OF EA 4 showi	ich component ng range	(common NA	ME SHALL BE	GIVEN IF CH	EMICAL NAI erials	ME IS UNI	KNOWN): rage
ું ફ	culate is sium Chlo	s 23% N, oride	10%	P ₂ 0 ₅	and of	% K ₂ O d	erived	Prom Ammo	onium S	ulrate,	Ammoniu	m Phos	pnate ———	and ———
<u>ي</u>	<u> </u>						···				 	····	<u> </u>	·
V2 NOTE				D ONLY 1				CTLY TO THE A	TMOSPHERE	_				
4 0.		STACK		VENT		GAS EXIT	VELOCITY:	•	FP\$	42. GAS EX	IT TEMPERAT	URE:		o _F
	DRAFT CONTR		☐ MAI			TOMATIC			OTHER (·		
44.	OF THE APPL				IE NEAREST	PLANT BOU	NDRY FT.	45. HEIGHT O	F STACK OR	VENT ABOVE	GRADE:			г т.
46.	HEIGHT OF S	STACK OR VEN	T ABOVE	ROOF:			FT.	47. HEIGHT O	F TALLEST	BUILDING WIT	HIN 150 FEE	T:		FT.
48.		ATION OF STA		•				•		ENT AT EXIT:		•		FT ²
50.		CATION, THE						KHAUSTED THROU CH OTHER EQUIP						
· .·	TOTAL NUMBE	ER OF PAGES	IN EXH	IBIT G:	···		•		,					
51.	NITROGEN, A	AND HYDROCAR	BONS (A	AS METHAN	E) EMITTE	D FROM ALL	SOURCES LO	NTS OF PARTIC CATED ON THE OF THE PLANT	PLANT OR P	REMISES, INC	LUDING THE			
	MATERIAL		ONE-		AMOUNTS	MATER.AL		ONE-HOUR MA		MATERIAL		ONE-HOUR		
	PARTICULAT	TE MATTER		35.2	LB	SULFUR DIO	XIDE	1	. <u>.44</u> L8	NITROGEN OX	IDES AS NO2		2.45	2_:3
	HYDROCARBO	ONS AS CH4		_=	LB	CARBON MON	OXIDE	<u> </u>	LB	MH3 -13	4 1bs/h	r max.		
<u>(*)</u>		ea= 10.3	4. ac	res	LB]	CARBON MON	DXIDE	<u></u>	L8	[注: -13	<u>4 lbs/h</u>	r max.		

APC-64

EXHIBIT - B(3)

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A summary of stack emission tests at Swift Chemical Company Plant in Fairmont City, Illinois - Dryer/Cooler Scrubber, an American Air Filter Company Type "R" Roto-Clone Emission Source #12

			`.	•	Total
Source Operation	Date	Tested By	EPA Observers		articulate Emission
 					
		•		(SCFM)	(lbs/
#12 Dry Cooler "					
Roto-Clone Scrubber	1/21/71	(1)	None	30,305	27.0
Roto-Clone Scrubber	1/21/71	(1)	None	31,505	23.1
Roto-Clone Scrubber	2/12/71	(1)	None	30,600	12.1
Roto-Clone Scrubber	2/12/71	(1)	None	29,585	11.2
Roto-Clone Scrubber	3/4/71	(1)	Mr. Telford	30,670	18.1
Roto-Clone Scrubber	3/4/71	(1)	and Mr. Beck	30,670	21.6
Roto-Clone Scrubber	4/14/71	(1)	Mr. Burroughs:	: 28,790	4.2
Roto-Clone Scrubber	4/14/71	(1)	Mr. Burroughs	28,790	2.8
Roto-Clone Scrubber	9/17/71	(2)	None	30,000	23.0
Roto-Clone Scrubber	9/17/71	(2)	None	39,700	27.8
Roto-Clone Scrubber	9/17/71	(2)	None	30,300	33.1
Roto-Clone Scrubber	9/17/71	(2)	None	30,300	13.1
Roto-Clone Scrubber	10/5/71	(2)	Mr. Telford and	30,000	8.8
Roto-Clone Scrubber	10/5/71	(2)	Mr. Beck	31,100	8.2
Avera	ge 14 tests	•		38,880	16.7

⁽¹⁾ Industrial Testing Laboratories Inc., St. Louis, Mo. Test Engineer: Mr. M. F. Fuller

⁽²⁾ Ryckman, Edgerly, Tomlinson & Associates, St. Louis, Mo. Test Engineer: Mr. W. E. Anderson



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2209 CHURCHILL PUAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OSILVIE, GOVE WILLIAM L. BLASER, DIRE

· ·			•
DATA AND INFORMATION FOR EXISTING	CO1 501	I.D. KO.	FOR OFFICIAL USE CHLY
AIR POLLUTION CONTROL EQUIPMENT Source	Operation #6	PERMIT NO. DATE	c
1a. Swift Chemical Company	16. NAME OF O SWIIT C	remator: nemical Co	ompany
2a. SIREET ADDRESS OF OWNER: 111 West Jackson Blvd.	2b. STREET AD 2501 N. 1	ORESS OF OPERATO Cingshighwa	R: (II.#111)
3a. CHY OF OWNER: Chicago	36. CITY OF O		
4a. STATE OF OWNER: 11 Indis 4b. ZIP CODE: 60604	5a. STATE OF Illino:		56 ZIP CODE:
6. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWN	ER):		•
7. LOCATED WITHIN CITY LIMITS:	8. STREET AD 2501 N.	RESS OF EMISSIO Kingshighw	m source:
-9a. CITY: 9b. LOCATED WITHIN CITY LII Fairmont City ⊠YES ☐ NO	St. Clair		116226f ^{00E} :
12. WAS THE EQUIPMENT DESCRIBED IN THIS INFORMATIONAL FORM INS	TALLED AT THE PLANT OR P	REMISES OF THE A	PPLICANT ON OR BEFORE APRIL 14, 197
_ ⊠YES □NO	•		
IF "NO." STATE WHETHER THE APPLICANT HAD, ON OR BEFORE APR UNDERTAKE AND COMPLETE, WITHIN A REASONABLE TIME, A CONTINUE THIS INFORMATIONAL FORM:	IL 14, 1972, ENTERED INT JOUS PROGRAM OF CONSTRUC NO	D A BINDING AGRE	EMENT OR CONTRACTUAL OBLIGATION TO TION OF THE EQUIPMENT DESCRIBED IN
13. THE APPLICANT SHALL PROVIDE THE RESULTS OF TESTS CONDUCTED SHOW WHETHER OR NOT THE EMISSIONS OF CONTAMINANTS FROM THIS OTHER SOURCES LOCATED AT THE SAME PLANT OR PREMISES OF THE POLLUTION.	5 EMISSION SOURCE, FITHE	የ ፈተርህም በጽ ተኳ ኖባ	MRINATION WITH CONTAMINANTS FROM
IN LIEU OF ONE OR MORE OF SUCH TESTS, THE APPLICANT MAY SUE ENGINEERING STUDIES SUFFICIENT TO ACCURATELY ESTIMATE THE FOR SHOW WHETHER OR NOT THE EMISSIONS OF SUCH CONTAMINANTS, LOCATED AT THE SAME PLANT OR PREMISES OF THE APPLICANT, CONTAMINANTS, CONTAM	PATES OF EMISSIONS OF CO ELITHER ALONE OR IN COMP	HAMINANTS FROM	THIS EMISSION SOURCE AND FURTHER TAMINANTS FROM OTHER SCHOOLS
See exhibit #B(2) for results of stack t	tests on Source (Operation $\#$	6 - attached to APC-64(
3			•
•	•	• .	

(CALLESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

•	•		· .
1.0. 1.3.	FOR OFFICIAL US	E GNLY PERMIT APPLICATI	64 49. c
	GENERAL INFORM	ATTON	
BY AN ATTACHED ACCEPTOUN). 2. DIMENSIONED DRAWINGS, PLAN-EL DISTANCES TO MEAREST GOUNDARY	ON FORM (SEPARATE APPLICATION FORMS EVATION (SECTIONED WHERE NECESSARY A OF THE PROPERTY ON WHICH THE CONTRO HOMES, HOSPITALS, SCHOOLS, AND COMME	FOR EACH ITEM OF CONTROL EQUIPMENT AND WHERE APPLICABLE) PLOT PLAN AND DL EQUIPMENT IS LOCATED, AND THE D	O MAP SHOWING ISTANCES TO NEAREST
	PRIMARY CONTROL EQUIPMENT	SECONDARY CONTROL EQUIPMENT	TERTIARY CONTROL SCUIPM
14. TYPE OF CONTROL EQUIPMENT: (e.g., MULTICLONE, BAGHOUSE)	Wet Cyclone	b.	с.
15. MANUFACTURER:	a. Ceilcote Inc.	b.	c.
16. MODEL:	a. VWC88	b.	c. ·
17. SERIAL NUMBER:	a.	b	c. · .
18. COST OF CONTROL EQUIPMENT: (NOT INCLUDING INSTALLATION)	a. s 9500	b. \$	c. \$
19. INLET GAS RATE (CFM AT INLET TEMPERATURE & PRESSURE):	a. 6700 cfm	b. CFM	c.
20. INLET GAS RATE (AT STANDARD CONDITIONS):	a. 6200 SCFM	b. SCFM	c.
21. INLET TEMPERATURE (AT POINT OF INLET GAS RATE MEASUREMENT):	a. 110 of	b. OF	с.
22. EXHAUST GAS RATE (CFM AT EXHAUST TEMPERATURE & PRESSURE):	a. 6650 CFM	b. CFM	c.
23. EXHAUST TEMPERATURE (AT POINT OF EXHAUST GAS RATE MEASUREMENT):	a. 105 of	b. o _F	с.

FPS

GRS/SCF

MICRON

INCHES OF WATER

46

O VOL %

WKS/YR

0F

Ь.

ь.

b.

ь.

b.

FPS

GRS/SCF

MICRON

INCHES OF WATER

PERCENT OF ANNUAL THRUPUT:
DEC-FEB 25 * MAR-MAY 45 *

O VOL 2

WT :

٥F

c.

c.

c.

c.

c.

c. '

42

a. 0.41

a. N.A.

a. N.A.

a.

a.

2

90

98

DUCT VELOCITY (AT POINT OF INLET GAS RATE MEASUREMENT): (27"x14")

STANDARD GEOMETRIC DEVIATION OF DIS-TRIBUTION OF PARTICLE SIZE BY WEIGHT:

INLET CONCENTRATION BY VOLUME 3 OF GASEOUS CONTAMINANTS IN THE TOTAL GAS STREAM. (NEED NOT SUBMIT THIS INFORMATION IF FORM APC-63

CONTROL EQUIPMENT EFFICIENCY:

AYERAS OPERATION TIME OF CONTROL EQUIPMENT:

EXHAUST GAS DEW POINT:

INLET GRAIN LOADING (AT POINT OF INLET GAS RATE MEASUREMENT):

GEOMETRIC MEAN DIAMETER OF PARTICULATE MATTER:

IS SUEMITTED):

PRESSURE DROP:

INCHES OF W

JUNE-AUG 14: SEPT-NOV 16

GRS

HI

Ī	1.0.	l Cit		FOR OFFICIAL	USE ONLY	PERMIT APPLICATI	ດະນາວ. c 🔲	
۰ ۰				WET COLLECTOR GE	NERAL INFORMATIO	976		
(PRIMARY CONT	ROL EQUIPMENT	SECUNDARY	CONTROL EQUIPMENT	TERTIARY (CONTROL EQUIPMENT
	70 .	TYPE OF WET COLLECTOR:	SPRAY	ORIFICE FECHANICAL IFY)	1	MECHANICAL	:	ORIFICE MECHANICAL CIFY)
	71.	INLET SCRUBBANT COMPOSITION AND MT. % EACH:	bFert.Soli	ds 20%	COMPOSITION d e f		COMPOSITION g h	
	72.	PH VALUE OF INLET SCRUBBANT:	a. 6.5	<u> </u>	b.		c.	
3 7	73.	CUTLET SCRUBBANT COMPOSITION WT. % EACH:	COMPOSITION a. H ₂ O bFert.Soli	wr. 1 79.97 ds 20.03	COMPOSITION d e f		COMPOSITION 9 h 1	
5	74.	SCRUBBANT FLOW:	a. 7200	GPH	b. ·	6PH	c.	GPH
_	75.	SCRUBBANT MAKEUP RATE:	a. 120-240	◆ GPH	b.	GPH	c.	GPH
		SCRUBBANT MAKEUP COMPOSITION AND NT. % SOLUTE:	a. 0.06	WT. X	b.	WT. \$	c.	WT. %
0	- 77.	VAPOR PRESSURE OF LIQUID CONTAMINANT AT OPERAT-ING TEMPERATURE:	ā.	PSIA	b.	. PSIA	c. \	PSIA
9	78,	PRESSURE DROP		INCHES OF MATER	b.	INCHES OF WATER	c.	INCHES OF WATER
3	79.	TYPE OF MIST ELIMINATOR:	□ SIMPLE □ BAFFLES a. □ OTHER	☑ NONE	SIMPLE BAFFLES 5. OTHER	☐ NONE	STMPLE BAFFLES C. OTHER	NONE
0		SCRUBBER	PRIMARY CONTI	ROL EQUIPMENT	SECONDARY	CONTROL EQUIPMENT	TERTIARY C	ONTROL EQUARMENT
	80.	NOZZLE PRESSURE:	a. 50	PSIA	b.	PSIA	с.	PSIA
٠	81.	CONTACT AREA:	a.	FT ²	b.	FT2	c	FT?
	82.	TYPE OF PACKING:	a. None		b.		c.	
	83.	LENGTH OF PACKED BED:	a.	IN	b.	· IN	c.	IN
	84.	SCRUBBER CROSS- SECTIONAL AREA:	a. 19.62	FT ²	b.	ਜ2	c	FT2
		YENTURI SCRUBBER	PRIMARY CONTI	ROL EQUIPMENT	SECONDARY	CONTROL EQUIPMENT	TERTIARY C	ONTROL EQUIPMENT
	85.	THPOAT DIAMETER:	a	FT	b.	- ਜ	с.	FT FT
	86.	GAS VELOCITY AT THROAT:	a.	FPS	õ.	FPS	с.	FPS
	37	CORRELATION COCCETATIONS.	T				l	

1.0. NO.					FOR GFFICIAL	USE GNLY			c
,					EXHAU				
E9. EXHAUST G	AS FROIL			· 		SO. YOUR DESIGNATION	OF STACK	OR VENT:	
CONTROL E	QUIPMENT _	INSIDE	BUILDING	ATMOSPHE	ERE	Source Opera	ation $\#6$	5	>
7). Y		OTHER	(SPECIFY): _				٠		• .
91. HOW EMISS				92. GAS EX	IT VELOCITY:	142		S EXIT TEMPERA	
94. DRAFT CO:	TROLS:	K -		AUTOMATIC		#2 FPS BAROMETRIC		s from 80 (SPECIFY)	£0 TIO
95. HEIGHT OF						VENT ABOVE ROOF:	- 98. HE	IGHT OF TALLES	T BUILDING WITH
	38 ⁻ ft.		., .		.14	·	FE	et: 52	
99. STACK OR	•	·	•	J	· - ·	FT .	100. AR	· · · · · · · · · · · · · · · · · · ·	R VENT AT EALT:
		[3]	ONLY THIS EQUIPMENT	<u>і</u> отне	R EQUIPMENT			2.63	•
THIS APPL	EMISSION SOU ICATION, THE PPLICATION A	APPLICA	MT SHALL DEF	M CONTROL EQUI	PMENT ARE EXH AND QUARTITY	STE SHT HOUGHT CETEUR TORE CHOISSIME SHT FO	CK OR VENT	SERVING THE E R EQUIPMENT AN	QUIPMENT COVERE D ATTACH SUCH 1:
TOTAL NUM	BER OF PAGES	IN EXHI	BIT G:						•
									•
100 Tus 1001 I	ANT CUSIA C	POULT AN	ESTIMATE OF	THE MAYTHIN ON	IS MOUR AMOUNT	'S OF PARTICULATE MATT	SO SULEUD	DIOVICE CARR	01 40104105 041
KITROGEN.	AND HYDROCAS	RBONS (AS	S METHANE) EN	MITTED FROM ALL	SOURCES LOCA	ATED ON THE PLANT OR P THE PLANT OR PREMISE	REMISES, IN	ICLUDING THE EI	MISSIONS. ESTIMAT
MATERIAL		ONE-HO	OUR MAX. AMOU	JNTS MATERIAL		ONE-HOUR MAX. AMOUNTS	MATERIAL		ONE-HOUR MAX. AM
્ર	ATE MATTER	35.	2	LB SULFUR DIO		7.44	 -	XIDES AS NO2	2.45
HYDROCAR	BONS AS CH4			LB CARBON MON	OXIDE	LB	мн ₃ -	134 lbs/H	r.max.
				·	EXHAUST GAS	ANALYSIS	\ 		
CONTAMINANT	CONCENTR	RATION	EMISSIO		METHOD	OF MEASURE AND ANALY	SIS	METHO	O OF MONITORING
CARBON DIOXIDE	a.	PPM	b. [c.		d.	· · · · · · · · · · · · · · · · · · ·	
TOS. CARBON MONOXIDI	3	РРМ	b. [LB/HR	c.		d.		
	, la.	PPM) 5. [LB/100BTU LB/HR		•			
	a .		-		16.		<u>d.</u>		
HYDROCARBONS AS CH4	a.	PPM	b. [L8/10 ⁶ BTU L8/HR	c.		d. d.		
HYDROGEN CHLORIZE	-		b. [L8/10 ⁶ BTU	c.				
HYDROGEN CHLORIZE	a.	PPM	b. [b. [L8/10 ⁶ BTU L8/HR LB/10 ⁶ BTU	c.		d.		
HYPROSES TOP. BYPROSEN	a.	PPM	b. [b. [b. [b. [L8/106BTU L8/HR L8/HR LB/HR LB/HR LB/HR LB/HR LB/HR LB/106BTU LB/106BTU	c. c.		d.		
HYPROFES 109. SULFIDEN . 110. NITROGEN	a.	PPM PPM PPM	b. [b. [b. [L8/106BTU L8/HR L8/106BTU L8/HR L8/106BTU L8/HR	c. c.	· .	d. d. d.		
HYDROGEN CHEORIZE 109. SULFIDEN 110. NITROGEN ATROGEN OXIDES AS NO2	a. a.	PPM PPM PPM PPM	b. [b. [b. [b. [b. [L8/106BTU L8/HR L8/105BTU L8/HR L8/HR	c. c.		d. d. d. d.		
HYDROGEN CHEORIZE 109. SULFIDEN NITROGEN OXIDES AS NO2 112. SULFUR D.OXIDE	a. a. a. a.	PPM PPM PPM PPM PPM	b. [b. [b. [b. [b. [L8/106BTU L8/HR	c. c.		d. d. d. d.		
109. BYDEOSEN. SULFICE NITROGEN AITROGEN OXIDES AS NO2 112.	a. a	PPM PPM PPM PPM PPM	b. [] b. [] b. [] b. [] b. [] c. []	L8/106BTU L8/HR L8/HR L8/HR LB/HR LB/106BTU LB/HR LB/106BTU LB/HR LB/106BTU LB/HR LB/106BTU LB/HR	c. c.		d. d. d. d.		



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POELUTION CONTROL - 2200 CHURCHILL RUAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOT WILLIAM L. BLASER, DIA

	FOR EXISTING AIR POLLUTION CONTROL EQUIPMENT	COZ eration #12	I.D. NO. PERMIT NO. DATE	C C
	la. NAME OF DANER: Swift Chemical Company	16. NAME OF OF SWIFT CR	PERATOR: nemical Com	pany
	2a. STREET ADDRESS OF OWNER: 111 West Jackson Blvd.	2b. STREET ADD 2501 NO	ress of operator: rth Kingshi	hway (Il-#111)
	3a. City Of OWNER: Chicago	36. CITY OF OF Fairmon	t City	
•	4a. STATE OF OWNER: 4b. 21P CODE: 111inois 60604	5a. STATE OF (Illinoi		56. ZIP CODE: 62201
•	6. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):			
0	7. LOCATED WITHIN CITY LIMITS:		oress of emission rth Kingshie	
ູກໍ	-9a. CITY: Pairmont City 9b. LOCATED WITHIN CITY LIMITS: ⊠YES □ NO	10: COUNTY: St. Cla	ir	11. JUP (OPE:
٥.	12. WAS THE EQUIPMENT DESCRIBED IN THIS INFORMATIONAL FORM INSTALLED	AT THE PLANT OR PR	REMISES OF THE APP	LICANT ON OR BEFORE APRIL 14, 197
_	⊠ YES □NO			
0 (तङ्क	IF "NO." STATE WHETHER THE APPLICANT HAD, ON OR BEFORE APRIL 14, UNDERTAKE AND COMPLETE, WITHIN A REASONABLE TIME, A CONTINUOUS PRITHIS INFORMATIONAL FORM:	1972, ENTERED INTO OGRAM OF CONSTRUCT) A BINDING AGREEM TION OR MODIFICATI	ENT OR CONTRACTUAL OBLIGATION TO ON OF THE EQUIPMENT DESCRIBED IN
ე 9	13. THE APPLICANT SHALL PROVIDE THE RESULTS OF TESTS CONDUCTED IN ACCUSHOW WHETHER OR NOT THE EMISSIONS OF CONTAMINANTS FROM THIS EMISS OTHER SOURCES LOCATED AT THE SAME PLANT OR PREMISES OF THE APPLICATION.	ION SOURCE, EITHER	R ALONE OR IN COMB	UNATION WITH CONTAMINANTS FROM
9 ?:	IN LIEU OF ONE OR MORE OF SUCH TESTS, THE APPLICANT MAY SUBMIT OF ENGINEERING STUDIES SUFFICIENT TO ACCURATELY ESTIMATE THE RATES OF TO SHOW WHETHER OR NOT THE EMISSIONS OF SUCH CONTAMINANTS, EITHER LOCATED AT THE SAME PLANT OR PREMISES OF THE APPLICANT, COMPLY WITH	F EMISSIONS OF CON ALONE OR IN COMBI	ITAMINANIS FROM IH INATION WITH CONTA	HIS EMISSION SOURCE AND FURTHER LIMITARIES SOURCES
0	See Exhibit B(3) for results of stack tests or Attached to APC- $64(C)$	Source Ope	ration #12 -	• •
	•	•		

ESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

		===			==
T	T FOR OFFICIAL USE GALT	į	1 1		
	TON CITICING OUT OF THE TON TOTAL HOLD OF	1			
ł	PERMIT APPLICATION NO. C		1	1 !	

GENERAL INFORMATION

- NOTE: APPLICANT MUST SUBMIT TWO COPIES (THREE IF LOCATED IN COOK COUNTY) OF EACH OF THE FOLLOWING:

 1. CONSTRUCTION PERMIT APPLICATION FORM (SEPARATE APPLICATION FORMS FOR EACH ITEM OF CONTROL EQUIPMENT NOT COVERED BY AN ATTACHED ACCENDING).

 2. DIMENSIONED DRAWINGS, PLAN-ELEVATION (SECTIONED WHERE NECESSARY AND WHERE APPLICABLE) PLOT PLAN AND MAP SHOWING DISTANCES TO NEAREST SOUNDARY OF THE PROPERTY ON WHICH THE CONTROL EQUIPMENT IS LOCATED, AND THE DISTANCES TO NEAREST

		DISTANCES TO MEAREST BOUNDARY OF RESIDENCES, LODGINGS, MURSING HOLD THE PLOW DIAGRAM AS SPECIFIED IN THE	MES. H	HOSPITALS.	, SCHOOL	UH THE CONTROL LS, AND COMME	L EQU RCIAL	i Prement is L Augusta Cra Cooler	CTURING	IC 3HT CAR MHZIJBATZ3	ノミリてら	es to neare: Dryer/Co		
				PRIMARY CO		QUIPMENT	Pr	EFOINGE CO.		UTPMENT		condary rection (0:		- ρ: -
•	14.	TYPE OF CONTROL EQUIPMENT: (e.g., MULTICLONE, SAGHOUSE)	a. ;	Simple	Cycl	one	b. £	Simple C	yclon	.e	с.	Roto-Clo	ne	_
	15.	MANUFACTURER:	a.E	dw.Ren	neber	g & Son	b. I	Edw.Renn	eberg	& Son	c	American	ı Air F	<u>:</u>
		MODEL:	a.	· .			ь.				c. !	Type R		
_	17.	SERIAL NUMBER:	a.				ь.				c.			
-	18.	COST OF CONTROL EQUIPMENT: (NOT INCLUDING INSTALLATION)		ot avai sprior				ot avail ;prior			c.	\$ 20,000) <u>. </u>	
0	19.	INLET GAS RATE (CFM AT INLET TEMPERATURE & PRESSURE):	a.	21,200	<u> </u>	CFM	ь.	13,600		CFM	c.	34,800		_
4		INLET GAS RATE (AT STANDARD CONDITIONS):	a.	18,000	၁	SCFM	ь.	12,000		SCFM	c.	30,000		
6	21.	INLET TEMPERATURE (AT POINT OF INLET GAS RATE MEASUREMENT):	a.	165	5	of	ь.	140		o _F	c.	155		
	22.	EXHAUST GAS RATE (CFM AT EXHAUST TEMPERATURE & PRESSURE):	a.	21,200	0	CFM	b.	13,600		CFM	c.	32,270		-
Ō		EXHAUST TEMPERATURE (AT POINT OF EXHAUST GAS RATE MEASUREMENT):	a.	165	5	0F	Ь.	140		0F	c.	110		
	24.	DUCT VELOCITY (AT POINT OF INLET GAS RATE MEASUREMENT):	a	79	9	FPS	ь.	76		FPS	c.	77		
0	25.	INLET GRAIN LOADING (AT POINT OF INLET GAS RATE MEASUREMENT):	a.	6.77		GRS/SCF	b.	3.4		GRS/SCF	c.	1.08	(GRS
ં •	26.	PARTICULATE MATTER:		ee exhi 6,7 & 8		MICRON	b. =	See exhi 76, 7 &	bits 8	HICRON	c.	N.A.	-	MI
\$	27.	STANDARD GEOMETRIC CEVIATION OF DIS- TRIBUTION OF PARTICLE SIZE BY WEIGHT:	a.				ь.				c.		<u>-</u>	_
??	28.	GASEOUS CONTAMINANTS IN THE TOTAL				,			-					_
0	•	GAS STREAM. (NEED NOT SUBMIT THIS INFORMATION IF FORM APC-63 IS SUBMITTED):				•			-					:
	_	3			•					,				•
-	·		a.			. • !	b.			•	c.			
_	29.	PRESSURE DROP:	a.	24	INCH	ES OF WATER	ь.	3		OF WATER	c.	· 6	INCHES OF	ΕĶ
- ,	30.	CONTROL EQUIPMENT EFFICIENCY:	a	80		D VOL %	b	80		□ VOL :	c	94]
_	31.	EXHAUST GAS DEW POINT:	a.			0F	ь.		•	0F	c.	,		
	32.	AVERAGE OPERATION TIME OF CONTROL EQUIP	MENT:	. 1	46	WKS/YR	33.	PERCENT OF DEC-FEB 2	F ANNUAL	THRUPUT: R-MAY 45	<u> </u>	VE-AUG 14:	SEPT-NO	 :1

I.D. NO.



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION ACENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OLILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTO

٠ <u>٠</u> ٠		· · · · · · · · · · · · · · · · · · ·		<u> </u>				
		ADDENDUM W STEWATER TREATMENT FROM WET COLLECTORS	I.D. NO. PERMIT NO. DATE	OR OFFICIAL USE ONLY				
	. NAME OF OWNER: Swift Chemical Compar	y	7. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FAUM GAMER)					
	. TELEPHONE NUMBER: 312/431-2540 . STREET ADDRESS OF OWNER: 111 West Jackson Blv	rd.	8. TELEPHONE NUMBER: 9. STREET ADDRESS OF EMISSION SOURCE:					
	. city: Chicago		2501 N. Kingshighway (II1-=111) 10. CITY: Fairmont City LIMITS: YES NO					
3	. STATÉ: Illinois	6. ZIP COLE:	12. county: St. Clair	13. ZIP CODE: 62201				
N(OTE: COMPLETE ITEMS 14 AND 15 IF 3. NAME AND TITLE OF PERSON CERTI AND TREATMENT:	WATER DISCHARGE WILL BE A SEWER. FYING ADEQUATE CAPACITY OF TRANSPOR	15. SIGNATURE AND DATE (OWNER AND IF APPLICABLE, TREATM	OR AUTHORIZED AGENT OF SEWER SYSTEM ENT WORKS):				
	PERMIT TO () *CONSTRUCT () *AND OPERATE	*(X) AS APPLICABLE					
16.	. WASTEWATER FLOW RATE THROUGH A	Pasis 120% of Average flow 120 gpm 80% of Average flow	b. AVG. FLOW 115,200	GAL/DAYGAL/DAYGAL/DAY				
17.	. CONTAMINANTS PRESENT IN WASTEWATER	FEED WATER TO DEVICE (mg/l) -	DISCHARGE FROM DEVICE (mg/l)	EFFLUENT FROM TREATMENT PROCESS (mg/1)				
	SUSPENDED SOLIDS	50 .	437	50 mg/l				
_	TOTAL DISSOLVED SOLIDS	20%	20.4%	20.0%				
-	рН 3	6.5	7.0	7.0				
-	OTHERS ***	j		·				
		·						
	LIST AND ANALYZE ALL OTHER CONTAMINANTS IN WASTEWATER FOR WHICH STANDARDS ARE SET BY "CHAPTER 3, WATER POLLUTION CONTROL REGULATION OF ILLINOIS." (ATTACH ADDITIONAL SHEETS IF NECESSARY.)							
18	8. TREATMENT PROCESS (ATTACH A RATES FOR EACH COMPONENT OF W	TREATMENT PROCESS INCLUDING LOADING						
19	19. NAME OF TREATMENT PLANT OR BODY OF WATER TO WHICH THE WASTE IS ULTIMATELY DISCHARGED. NONE. This is a closed loop operation and dissolved solids recovered by feeding back to process. The suspended solids recovered in pond pumped to drying bed on property once every 6 months.							
- -	THIS ADDENDUM WILL BE REVIEWE ADDITIONAL DATA OR DOCUMENTAT "WATER POLLUTION REGULATIONS	D BY THE DIVISION OF WATER POLLUTIC ION NEED BE SUBMITTED TO CONSTITUTE OF ILLINOIS."	N CONTROL AND THE APPLICANT WILL BE A COMPLETE APPLICATION FOR PERMIT	E NOTIFIED WHETHER OR NOT AS REQUIRED BY PART IX OF				

EXHIBIT - 6

PARTICULATE SIZE DISTRIBUTION* TO CYCLONES FROM COOLER AND DRYER - WILLINGTON, N.C. TEST

PARTICLE SIZE ANALYSES

	Test No.		, 1	2
	Date		6-23-66	6-24-66
·	Location		Cooler Cyclone Inlet	<u>Dryer</u> Cyclone Inlet
	Micron Size		<u>% In</u>	Fraction
	+45		66.5	96.0
6 ,	+40 -45		3. 5	0.2
~	+35 -40		3.0	0.2
⋄	+30 -35		3.5	0.1
	+25 -30	_	3.5	0.3
0 ∂}	+20 -25	······································	3.6	0.3
U	+15 -20	•	3.9	0.8
်ပ	+10 +15		5.4	0.9
9	+5 -10	. •	3.8	0.5
<i>></i>	-5	r otal	3.3	100.0
• •	Specific Gravity		2.51	2.18

The foregoing particle size determination was performed in accordance with the provisions of ASME Power Test Code 28.

^{*} To Cooler and Dryer Cyclones basis tests made at Wilmington, N. C. By Buell Engineering Co., Inc. Product being made a 3-19-18 at 20 TPH

- EXHIBIT - 7

PARTICULATE SIZE DISTRIBUTION* TO CYCLORES FROM COOLER AND DRYER - SAVANNAH, GA. TEST

PARTICLE SIZE ANALYSES

	Test No.	7-1	12,13-66	7-13-66
	Date	1	1	2
	Location	Cyclone Inlet	Catch	Cyclone Inlet
	Micron Size	RADE 0-20-0	GRA <u>% In Fraction</u>	
	+45	51.0	41.8	73.2
	+40 -45	5.3	2.8	4.0
០	+35 -40	5.7	3.7	4.0
<u>.</u>	+30 -35	6.0	4.2	3.8
**************************************	+25 -30	8.5	5.3	3.2
0	+20 ~25	4.1	6.0	3.0
	+15 -20	5.6	6.7	2.3
.0	+10 -15	4.8	9.1	1.6
9 /	+5 -10	3.2	8.7	2.1
773	-5 Total	5.8 100.0	11.7	2.8
0				
	Specific Gravity	2.48	2.36	2.29

The foregoing particle size determination was performed in accordance with the provisions of ASME Power Test Code 28.

^{*} In combined air stream from Dryer and Cooler to Cyclone in tests at Savannah, Ga. plant by Buell Engineering Co., Inc.
Production rate 16 TPH

EXHIBIT - 8

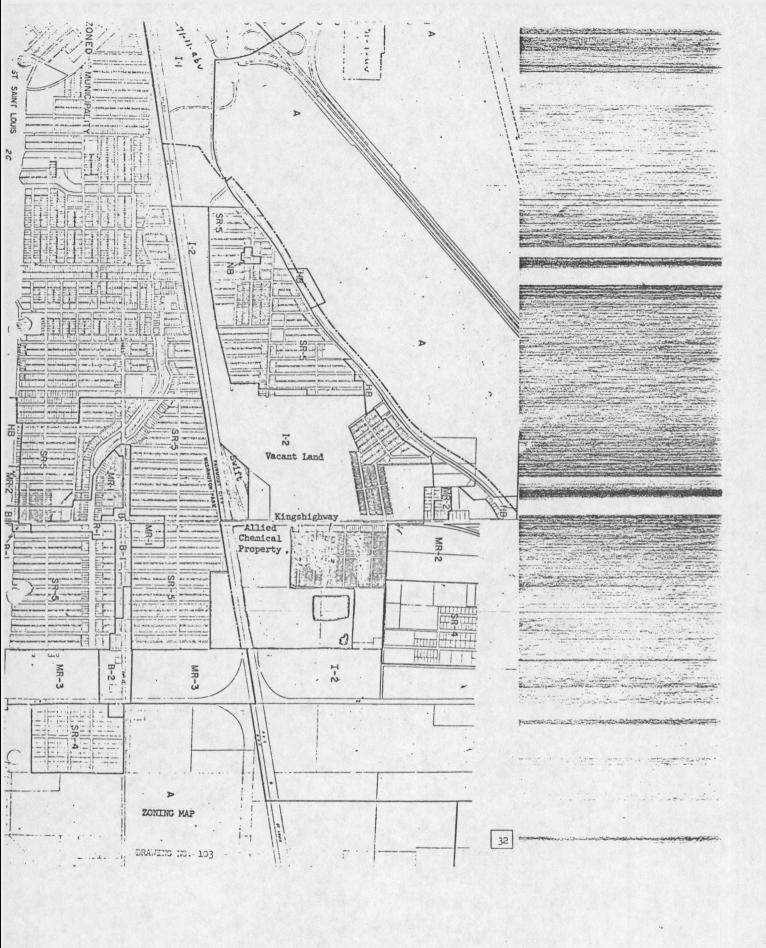
PARTICULATE SIZE DISTRIBUTION* TO CYCLONES FROM COOLER AND DRYER - CHARLESTON, S.C. TEST

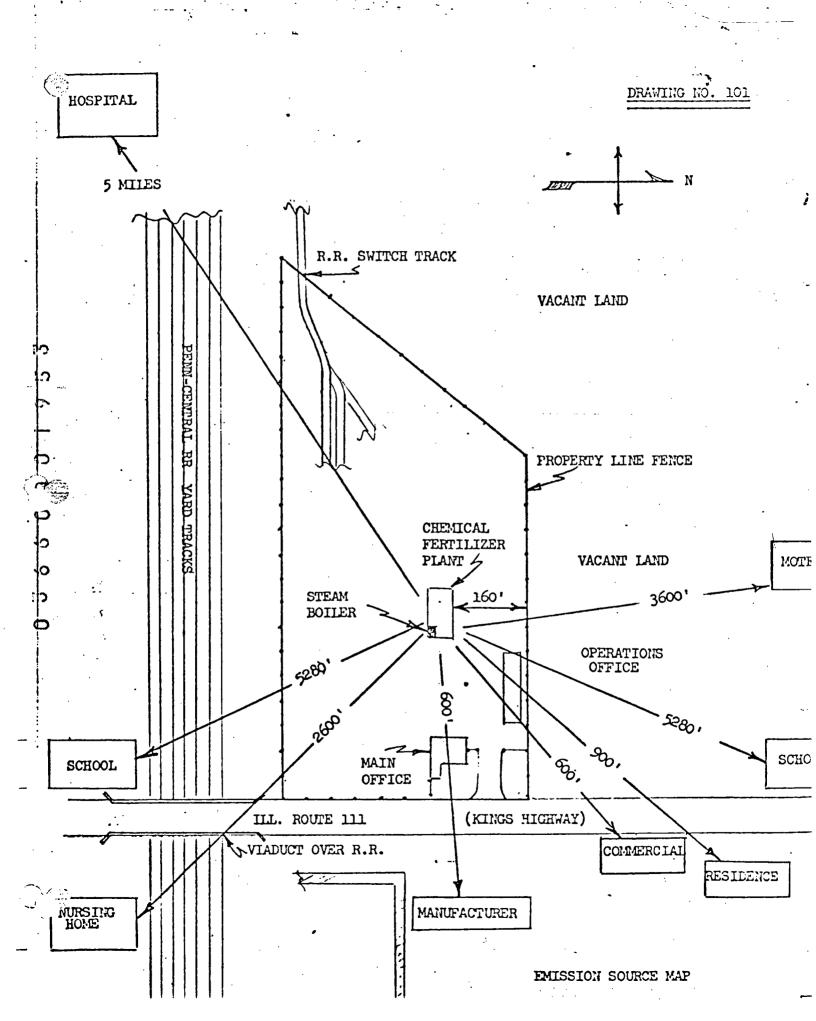
PARTICLE SIZE ANALYSES

	Date	7-7-	66	7-11-66		
	Test No.	1	1	2	2	
	Location	<u>Cyclone</u> <u>Inlet</u>	Catch	<u>Cyclone</u> <u>Inlet</u>	Catch	
	GRADE Micron Size	3-9-18	GR/ % In Fr		•	
	+45	52.0	74.0	94.0	65.0	
-	+40 -45 .	4.5	2.5	0.5	6.4	
ហ	+35 -40	5.4	3.0	0.6	6.6	
6	+30 -35	5.1	3.0	0.4	5.9	
0	+25 -30	6.0	3.0	0.7	5.0	
<u>ر</u>	+20 -25	5.5	3.4	0.6	4.0	
٠, ٠	+15 -20	. 6.1	3.5	0.7	2.9	
9	+10 -15	6.0	3.2	0.7	1.7	
9	+5 -10	5.3	2.4	0.85	0.6	
0	-5 Total	100.0	2.0	0.95	1.9	
	Specific Gravity	, 2.14	2.21	2.14	2.19	

The foregoing particle size determination was performed in accordance with the provisions of ASME Power Test Code 28.

^{*} In combined air stream from Dryer and Cooler to Cyclone in tests at Charleston, S.C. plant by Buell Engineering, Inc. Production rate 20 TPH





201 A 10 10 10 71 and and a ----S 0 0 9 0 DETAIL OF FIRE PUMP 9 FERTILIZER BUILDING 0 57 0 1 200 PLOT PLAN DRAWING NO. 105 37 SWIFT CHEMICAL COMPANY Fairmont City, Illinois Chemical Fertilizer Manufacturing Plant AUGUST 1962 DPAWN BY
EXCESS INSURANCE AGENCY INCORPORATED DRAWN BY J S PE



ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR FOLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62796

RICHARD B. OGILYIE, GOV! WILLIAM L. BLASER, DIRE

ADDENDUM A DATA AND INFORMATION FOR EXISTING EMISSION SOURCE	FOR OFFICIAL WSE ONLY
FAN DATA	PERMIT NO. S
1. NAME OF UNNER: SWIFT CHEMICAL CO.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM GAMER)
3. STREET ADDRESS OF EMISSION SOURCE: 2501 North Kingshighway	4. CITY: Fairmont City
5. MARIUFACTURER OF FAN: Buffalo Forge Co.	6. MANUFACTURER OF MOTOR: Westinghouse
7. MODEL NUMBER OF FAN: Buffalo #90 MW	8. TYPE OF MOTOR: Totally enclosed
9. TYPE OF FAN BLADE:	150 Ho
11. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM: B-Z	12. LOCATION OF FAM: Between CY 1 & 2 and SR-2
13. MANUFACTURER OF FAN: Plastic Blower Co.	14. MANUFACTURER OF MOTOR: Allis-Chalmers
15. MODEL REPRISER OF FAN: BPH Series, Size 20 17. TYPE OF FAN BLADE:	16. TYPE OF MOTOR: Totally enclosed 18. MOTOR HORSEPOWER:
Open Impeller 19. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	50 Hp
21. MANUFACTURER OF FAIL:	Between R-1 and SR-1 22. MANUFACTURER OF MOTOR:
HODEL NOMBER OF FAM:	24. TYPE OF MOTOR:
TYPE OF FAN BLADE:	26. MOTOR HORSEPOWER:
27. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	28. LOCATION OF FAM:
• 29. HAMUFACTURER OF FAM:	30. MANUFACTURER OF MOTOR:
31. KODEL KUMBER OF FAN:	32. TYPE OF MOTOR:
33. TYPE OF FAN BLACE:	34. MOTOR HORSEPOWER:
35. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	38. LOCATION OF PAN: 38. MANUFACTURER OF MOTOR:
37. MANUFACTURER OF FAM:	40. TYPE OF MOTOR:
41. TYPE OF FAN GLADE:	42. MOTOR HORSEPOWER
43. IDENTIFICATION OF FAN ON THE FLOW DIAGRAM:	44. LOCATION OF FAN:
<u> </u>	<u></u>



STATE OF ICCINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARE FILLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 6706

RICHARD B. OGILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTOR

(·					 	FOR OFF	ICIAL US	E. BULY	
	•	ADD	ENDUM F		104	1.D. NO.		FT		TTT
1			: INFORMATION EMISSION SOURCE		-	1	_	السلسلسا	<u> </u>	
			ANK ,			PERMIT NO.	•	Ş		
			(Fuel o	11)		DATE	-	=		
1.	NAME OF GWNER:	UNITOAT	20		2. NAMI	E OF CORPORATE D	IVISION OR P	LANT (IF	DIFFERENT F	ROM OWNER)
- 3.	SWIFT CI	SCURCE:	CO.		4. CIT	y ·				
	2501 N. Kingsh	ighway	···			Fairmont				
5.	NAME OF TANK MANUFACTURER	:			6. DES	IGNATION OF TANK	-			
7	Unknown Serial Number:		· · · · · · · · · · · · · · · · · · ·	·	8. CAP	Fuel Oil	. Scorage	: 	:	() BPLS
	None shown on t	ank			G. CAP	nc111.	10,00	0		XXGALS
9.	TAIK USE: Storage of	7 No. 2	Fuel Oil							
10.	TANK SHAPE:	110. 2	ruci Oii			• .				
	MORTZONTAL HORTZONTAL	CYLIN	IDRICAL	☐ SPHERICA	IL.	OTHER (SPE	CIFY)			
ੋ ਜ.	TANK DIAMETER:		12. TANK	HEIGHT:			13. TANK	LENGTH:	27	
O 14.	STATUS:		FTI		15. TAN	K TYPE:	n	FIXED R		OATING ROC
10-	Existing	☐ NEW	ALTERAT	ION		RESSURE		OTHER (SPECIFY)	
16.	SEAL: None	SINGLE	(SPECIFY)		17. AVE	RAGE DISTANCE FR Lt maximum	OM TOP OF TA	NK SHELL	to Fidnio:	r
C 18.	SHELL TYPE:					NT COLOR:	1111	·		
	RIVETED X	VEL DE D	OTHER (SPECIFY)	<u> </u>		Gr	ay			
•				VENT VA	LVE DATA					
	TYPE OF VENT	NUMBER	PRESSURE SETTING			DISCHA	RGE VENTED T	0		·
٠,	5/ ///2 0/ 12:11	OF VENTS	- MESSORE SETTING				ERE, FLARE,			
آدن.	Combination		b. PSIG			•				•
4	•	"	V				- · · · · · · · · · · · · · · · · · · ·			
. €	PRESSURE	a. ·	b. PSIG	с.	·\		· · · · · · · · · · · · · · · · · · ·	·-·		
ري 22.	VACUUM	a.	b. PSIG	_						·
	ODCN (C) - At-				. :					
5 2 23	OPEN TO Atmos.	<u>lal</u>	b. PSIG	l. To a	tmosphe	re				·
				MATERIALS	TO BE STORE	ED				
		MATERIAL				DENSITY		VAP	OR PRESSURE	AT 70° F
24.	a.				ь.		LBS/GAL	c. ·		P51/
25				· · · · · · · · · · · · · · · · · · ·	1				× 2 20*	
26	a. No. 2 Fuel 0	11	 		b.7.3		LBS/GAL	c. RVI	·>0.10*	PST
20	a.				ь.		LBS/GAL	c.		PSIA
27.				_						
. L	28. STORAGE TEMPERATURE:				1 b. 129. TANK	C TURN OVER PER	LBS/GAL (EAR:	<u>c.</u>	 	PSI
	HINIMUM30F		MAXIMUM	75 °F		prox.	8			
	30. MAXIMUM FILLING RATE:	Ogpm	םם	BBLS/DAY GALS/DAY	31. AVE	RAGE THROUGH PUT	300			98LS/DAY GALS/CAY
. —	32. PRESSURE EQUALIZERS US ☐ YES	D: . CM IŽ								
			IF VAPOR	LOSS CONTROL	DEVICE IS	ب د بالاستال	N DEOMIT API		H FOR AIR POL	
(33. VAPOR LOSS CONTINUES IN		TROL EQUI	PMENT (FORM	APC-61)	प्रांचक्र <u>मक</u> ्रमाण	TED TO SUI	BM!TTED	AS PART OF TH	IS APPLICAT

* Basis information from American Oil Company - Standard oil Div.

Reid Vapor Pressure less than 0.10 PSIA at 100° F



STATE OF ILLINOIS **ENVIRONMENTAL PROTECTION AGENCY** DIVISION OF AIR FULLUTION CONTROL 2200 CHURCHILL ROAD

RICHARD B. OGILVIE, GOVER! SPRINGFIELD, ILLINOIS 6276 WILLIAM L. BLASER, DIREC FOR OFFICIAL USE ONLY ADDENDUM F 1.D. NO. DATA AND INFORMATION FOR EXISTING EMISSION SOURCE PERMIT NO. TANK (Small Anhydrous NH3) NAME OF OWNER: NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM GAIN SWIFT CHEMICAL COMPANY 3. STREET ADDRESS OF EMISSION SCURCE: 4. CITY: 2501 North Kingshighway Fairmont City 5. MANE OF TANK MANUFACTURER: DESIGNATION OF TANK: Not known - name plate missing Anhydrous small Ammonia Storage 7. SERIAL NUMBER: ΠE 8. CAPACITY: 44 cuyds Ditto CJ G. TANK USE: Liquid Anhydrous Ammonia 10. TANK SHAPE: MORIZONTAL CYLINDRICAL SPHERICAL OTHER (SPECIFY) H. -TANK DIAMETER: 12. TANK HEIGHT: 13. TANK LENGTH: 6. 14. STATUS: FIXED ROOF 15. TANK TYPE: 7 FLOATING NEW ALTERATION Existing PRESSURE OTHER (SPECIFY) SEAL: SINGLE D DOUBLE 17. AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID: At maximum fill (85% of capacity) OTHER (SPECIFY) SHELL TYPE: 19. PAINT COLOR: RIVETED X WELDED OTHER (SPECIFY) Gray VENT VALVE DATA 2 vents with two safety relief valves NUMBER DISCHARGE VENTED TO PRESSURE SETTING TYPE OF VENT OF VENTS (ATMOSPHERE, FLARE, ETC) 20. Combination Discharge to atmosphere only in unlikely event PRESSURE (Safety) 2 . tank pressure exceeds 250 psig PSIG 22. VACUUM PSIG 23. OPEN PSIG MATERIALS TO BE STORED DENSITY MATERIAL VAPOR PRESSURE AT 70° F . Liquid Anhydrous Ammonia LBS/GAL 5.08 25. LBS/GAI LBS/GAL LBS/GAL h 28. STOPAGE TEMPERATURE: TANK TURN OVER PER YEAR: o_F 28 MUNITARIA -20 MAXIMUM 30. MAXIMUM FILLING RATE: BBLS/D □ ESLS/DAY 31. AVERAGE THROUGH PUT. 1300 GALS/DA Ø 50 gpm ō GALS/DAY

IF VAPOR LOSS CONTROL DEVICE IS

TROL EQUIPMENT (FORM APC-61)

THAT SCOMET APPLICATION FOR AIR POLLUTION CO

SUBMITTED AS PART OF THIS APPLIC

PRESSURE -EQUALIZERS USED: . 🔼 YES

23 110

YAPOR LOSS COM

T YES

CM CD



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FITTUTION CONTROL 2200 CHUACHRU ROAD SPRINGFIELD, ILLINOIS 6006

RICHARD B. OGILYTE, GOVERN

WILLIAM L. BLASER, DIREC

-کے							r .	E03 05	FICIAL USE ONLY		
			DATA AN	CENDUM F D INFORMATION DEMISSION SOURCE			1.D. NO.	-			T T
		•		IANK: (Large Ar	nhydrous	NH ₃)	PERMIT NO.		ــــــا ؟ <u></u>		
	1.	NAME OF OWNER: SWIFT CHEN					OF CORPORATE D	IVISION CR	PLANT (IF DIFFE	CENT FROM	CWM
	3.	STREET ADDRESS OF EMISSION 2501 North Kings	SCURCE:			4. CITY	rairmon	+ Ci+v			
	5.	NAME OF TANK MANUFACTURER	•		•		GNATION OF TANK	:			
	7.	Not known name place SERIAL NUMBER:	ate mis	sing		8. CAPA	Anhydrous		Storage		C) BF
<u> </u>	9.	Ditto TANK USE:		· · · · · · · · · · · · · · · · · · ·			3200	<u>.</u>			XKGA
	10.	Liquid Anh	ydrous .	Ammonia	· · · · · · · ·				 		
		HORIZONTAL -TANK DIAMETER:	CYL1	NDRICAL [SPHERICAL	<u>. </u>	OTHER (SPE		. 5.07.		
		9'-3"	• • •	FT.	neioni:	16 7111	· FI	13. TAYK	62'-9"		-11-2
		Existing	☐ HEN	ALTERATI	ON		RESSURE	Ī] FIXED ROOF] OTHER (SPECIF		: 176
0		SEAL:	SINGL OTHER	E DOUBLE (SPECIFY)		At ma	PAGE DISTANCE FREEXIMUM fill	ом тор об т. . (85% оз	ANK SHELL TO LI) Jaro:	2
	18. [SHELL TYPE: RIVETED X	KELDED	OTHER (SPECIFY)		19. PAIN	T COLOR: Gra	У			
0		•		_	VENT VAL	LVE DATA 2	vents wit	h two sa	afety relie	ef val	æs
_d		TYPE OF VENT	NUMBER OF VENTS	PRESSURE SETTING				RGE VENTED ERE, FLARE,			
ِّب <u>ِ</u> آ <u>ٺ</u> ِ	20.	Combination	,	b. PSIG	c						
-9	21.	PRESSURE Safety	a. \	b. 250 PSIG			atmospher re exceeds			event	;
~		YACUUM	a.	b. PSIG		·				·	•
	23.	OPEN	a.	b PSIG	c.		•				
0	•				MATERIALS 1	TO BE STORE	.D				
	\prod	•	MATERIAL				DENSITY		VAPOR PRE	SSURE AT	70° F
	24.	Liquid Anhydro	us Ammor	nia		b	5.08	L8S/GAL	c. 128.8	3 "	P:
	25.	a.				b	~	LBS/GAL	c		P'
	26.	a.	٠ : .			ь.		LBS/GAL			P.S
	27.	a.			_	ь.		LBS/GAL	c.		PS
		8. STOPAGE TEMPERATURE: HINDTOM 20 F		MAXIMUM	85 ° F		TURN OVER PER Y		32		
 .		HAXINUM FILLING RATE:	·50 gpm	0	BBLS/DAY GALS/DAY	31. AVER	AGE THROUGH PUT	3700	<u>. </u>		EBLS/DA EALS/DA
	, 3	Z. PRESSURE EQUALIZERS USE					• • •		., 		
	3	3. YAPOR LOSS COMPT MEL			LOSS CONTROL PMENT (FORM A	DEVICE IS	ी.सं.इ.स.च् <u>र</u> ाक्ष	TIMOSCOMIT AL	PPLICATION FOR A		
(YES PANO		2001	TONE (TONE)		MIRAGES C	706,			



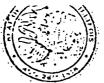
STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FILLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 67706

RICHARD B. OGILYIE, GOVERN

WILLIAM L. BLASER, DIRECT

کر	· · -		·				·	500.05		
(.						05		EOR OF	FICIAL USE ONLY	1-1-
•••		•	DATA AN	DENDUM F D INFORMATION			1.D. NO.			
		•		EMISSION SOURCE			PERMIT NO.	•	5	
		in en		TANK Phosphoric	And Mowle	A	DATE			
:	1.	NAME OF OWNER:	(Dodon	FIOSOHOTIC	: ACIG TENK			DIVISION OR	PLANT (IF DIFFERENT FRO	M OANE
		SWIFT CHEMICAL C				<u> </u>			.	
	3.	STREET ADDRESS OF EMISSION 2501 N. Kingshig		•	• •	4. CITY		- 034		
·	5.	MANE OF TANK MANUFACTURER				6. DES	Fairmont IGNATION OF TANK	CITY_		
		Built by prior	owners.	-Manuf not	known		sphoric Aci	d Tank	(South)	
	7.	SERIAL NUMBER: Has none				8. CAP/	ACITY: 2000			[] 8° M 64
	9.	TANK USE:				- 				
		Storage of Wet	Process	s Phosphori	c Acid	·	·	0		3 3 2
		INORIZONTAL	CYLI	NDRICAL	SPHERIC	AL.	OTHER (SPE		rectangular lea wood vat	a-11r
	_	-TANK BIAGETER:	.		TANK HEIGHT:			13. TANK	LENGTH:	
	14	Width :	12	FT.		10 15. TAN	FT FT	Ĺ	36 T FIXED ROOF T FLE	CATING .
9		Existing	■ NEW	ALT:	ERATION .		RESSURE	ב ב	OTHER (SPECIFY) ODE:	
	16.	SEAL:	☐ SINGL		BLE		RAGE DISTANCE FE	OH TOP OF T	ANK SHELL TO LIQUID:	
	18.	None SHELL TYPE:	· DOTHER	(SPECIFY)		19 PAT	Not applic	able	<u> </u>	
			WELDED	OTHER (SPE	(IFY)	13. 701	MI COCOX.	Not pa:	inted	
Ö	•	•		~	VENT V	ALVE DATA	None rec	nuired -	open vat	
	T	TYPE OF WENT	NUMBER	nnescune serri				ARGE VENTED		
_/ 📭	<u> </u>	TYPE OF VENT	OF VENTS	PRESSURE SETTI	10			ERE, FLARE,		
ب	20.	Combination	1], ,						
		\			PSIG C.	 .	· · · · · · · · · · · · · · · · · · ·			
9	21.	PRESSURE ·	a. ·	b. 1	SIG c.		 		· · · · · · · · · · · · · · · · · · ·	
્રજ	22.	VACUUN	a.	b	SIG c.	•	•	•		•
	122	OPEN	<u> </u>	<u> </u>	3.0 C.		. •			
	23.	UPEN	<u> </u>	<u>lb</u>	estel c					
0	•			·	MATERIALS	TO BE STORE	ED			
			MATERIAL				DENSITY		VAPOR PRESSURE A	7 70° F
	24.	<u> </u>				 	 			
·		. Wet Process Pl	nosphor	c Acid		b. 14	1.1	LBS/GAL	c. 1 mm Hg*	<u>, , , , , , , , , , , , , , , , , , , </u>
- :	25.	2.		•		b.		LBS/GAL	c	ю.
	26.	_ *.			,	1	· · · ·			
	-	<u>t.</u>			·	b.	· .	LBS/GAL	с.	P:
	27.	a.		•	~	b .		LBS/GAL		P:
		18. STORAGE TEMPERATURE: MINISTIM 30 F		MAXIM	т 70 °г	29. TAN	K TURN OVER PER 7.5			
	3	O. HANIMUM FILLING RATE:	,	ũ	BBLS/DAY	31. AVE	RAGE THROUGH PUT		[] ·	BBLS/DA GALS/EA
 .		50 gpm 2. PRESSURE EQUALIZERS US	ED: •		GALS/DAY	+	340		(2)	unca/ cz
		TES	<u>⊠</u> №		•		· •			
	, 3	3. YAPOR LOSS COME ME	ICC:	IF V/	POR LOSS CONTRO	L DEVICE IS	יייי ביייי און	AN SEPHIT A	PPLICATION FOR AIR POL USMITTED AS PART OF TH	LUTION CE
		YES MINO		I KUL	EQUIPMENT (FORM	APC-011	भू तस्य सङ्गाः (JUNEAU AJ FAST OF IR	.J MOPELL

*See Fig. 3-1 page 3-61 Chemical Engrs. Hdbk. 4th Ed



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARR FULL FIGURE CONTROL 2200 CHUSCHELL ROAD

RICHARD B. OGILVIE, GOVER:

5. 					SPRINGFIELD,	, ILL!NOIS		WILLIAM L. BLASER, DIREC
<u> </u>							FO	R OFFICIAL USE ONLY
(:	•	DATA AN	ENDUM F D INFORMATION	00)5	1.D. NO.	
			FOR EXISTING	EMISSION SOURCE			PERMIT NO.	5
	١.	*	·· / Na sada	TANK	4 - 2 3 - March	-1	ŀ	- Lankaide, dans de la constante de la constan
	Ļ <u>, </u>	NAME OF OWNER:	(NOP C	h Phosphoric	Acid Tani		DATE	
-	1.		000 m 1 m 1			2. NAM	E OF CORPORATE DIVISION	OR PLANT (IF DIFFERENT FROM OWN
		SWIFT CHEMICAL. STREET ADDRESS OF EMISSI	COMPANY					
	٥.	2501 N. Kingshig		• •		4. CIT		
	5.	NAME OF TANK MANUFACTURE				K DES	Fairmont Ci	СУ
-		Built by prior o		nuf, not know	m ·		phoric Acid Sto	raga (North)
<u> </u>	7	SERIAL NUMBER:	WIICID TIG	Hart Hoo Miow		8. CAP		D B!
	,.	Has None				32	000	M 6/
	9.	Tivy ICC.						
	••	Storage of Wet	Process	Phosphoric Ac	id			
	10.	TANK SHAPE:					• 0	pen rectangular lead-l
] HORIZONTAL	CYL1	NDRICAL	SPHERICA	L	OTHER (SPECIFY)	wood vat
	11.	-Tank existen:		12. TANK	HEIGHT:		13.	TANK LENGTH:
77		Width 12	•	FT.			O FI	36
	14.	STATUS:	NEW []	☐ ALTERAT	700	15. TAN		FIXED ROOF FLOATING
		Existing		ALTERAT	1011		RESSURE	OTHER (SPECIFY) Den top
	16.	SEAL:	☐ SINGL	-				OF TANK SHELL TO LIQUID:
_6	3 ~	None SHELL TYPE:	· D OTHER	(SPECIFY)			t applicable	
	18. 	RIVETED	KELDED	OTHER (SPECIFY)	19. PAI	NT COLOR: ot pairted	
ر ٺ_	·	- •			VENT VAI	LVE DATA	None required -	open vat
_ ਵ	;) 	TYPE OF VENT	NUMBER OF VENTS	PRESSURE SETTING		<u></u>	DISCHARGÉ VEN (ATMOSPHERE, FL	
ِّر - ک	20.	Combination	<u> </u>	b. PSIG	£.			
		An	1 .					
: vo	21.	PRESSURE	a. ·	b. PSIG	c.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
. 9	22.	VACUTUM	- }				•	•
- 🕶	<u> </u>		a	b. PSIG	c		· · · · · · · · · · · · · · · · · · ·	
	23.	OPEN		b PS1G	l .		•	
Ö	·		·	·	MATERIALS	TO BE STOR	ED	· · · · · · · · · · · · · · · · · · ·
· .		•	MATERIAL		.·		DENSITY	VAPOR PRESSURE AT 70° F
	24.	. Wet process	phosphor:	ic Acid		b. " 14	.1 LBS/G	AL c.lmm Hg* P
	25.	a.				ь.	LBS/G	AL C. P
	26.					1.		
	<u></u>	a.	· ·	·	 	ь	LBS/G	AL c. P
	27.	a.			~	Ь.	LBS/G	AL cP

o_F

IF VAPOR LOSS CONTROL DEVICE IS TROL EQUIPMENT (FORM APC-61)

YAG\2J89 GALS/DAY

TANK TURN OVER PER YEAR:

3400

31. AVERAGE THROUGH PUT:

*See Fig. 3-1 page 3-61 Chemical Engrs. Hdbk. 4th Ed.

MAXIMUM

BELS/D

GALS/C/

四四

SERMIT APPLICATION FOR AIR POLLUTION CO

28. STOPAGE TEMPERATURE:
HINIM 30 F

50 gpm

30. HAY LAUM FILLING RATE:

. 32. PRESSURE EQUALIZERS USED: .

33. VAFOR LOSS COMPT DATE:

☐ YES 图 NO



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ARRESTLUCTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 67/06

RICHARD B. OGILVIE, GOVERNO

WILLIAM L. BLASER, CIRECT!

E OF OWNER: IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none C USE: Storage of Sulf C SHAPE: DRIZONTAL	DATA AN FOR EXISTING DMPANY SCURCE: thway through the scurre of the scur	ENDUM F C INFORMATION EMISSION SOURCE TANK (Sulfuric Acid Manuf not known	2. NA 4. CII 6. DES Sul:	I.D. NO. PERMIT NO. DATE SE OF CORPORATE DIVISION OF TANK: furic Acid (60° I	s OFFICIAL USE ONLY S OR PLANT (IF DIFFERENT FROM O
E OF OWNER: IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none C USE: Storage of Sulf C SHAPE: DRIZONTAL	DATA AN FOR EXISTING DMPANY SCURCE: thway through the scurre of the scur	INFORMATION EMISSION SOURCE TANK (Sulfuric Acid Manuf not known	1 Tank) . 2. NA 4. CII	PERMIT NO. DATE ME OF CORPORATE DIVISION OF TANK: furic Acid (60° I	1
E OF OWNER: IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none C USE: Storage of Sulf C SHAPE: DRIZONTAL	MPANY SCURCE: thway mers -	EMISSION SOURCE IANK (Sulfuric Acid Manuf not known	2. NA 4. CII 6. DES Sul:	DATE TE OF CORPORATE DIVISION OF TANK: furic Acid (60° I	1
IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none CUSE: Storage of Sulf CSHAPE: DRIZONTAL	MPANY SCURCE: thway ners -	(Sulfuric Acid	2. NA 4. CII 6. DES Sul:	DATE TE OF CORPORATE DIVISION OF TANK: furic Acid (60° I	1
IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none CUSE: Storage of Sulf CSHAPE: DRIZONTAL	SCURCE: hway mers -	Manuf not known	2. NA 4. CII 6. DES Sul:	ME OF CORPORATE DIVISION OF THE TENTE OF TANK: FUTIC ACID (60° I	1
IFT CHEMICAL CO SET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none CUSE: Storage of Sulf CSHAPE: DRIZONTAL	SCURCE: hway mers -	-\$	4. CII 6. DES Sul	ry: Fairmont City SIGNATION OF TANK: furic Acid (60° I	1
ET ADDRESS OF EMISSION 501 N. Kingshig OF TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none CUSE: Storage of Sulf CSHAPE: DRIZONTAL	SCURCE: hway mers -	-\$	6. DES Sul	Fairmont City SIGNATION OF TANK: <u>furic Acid (60⁰ I</u>	Be) Storage
501 N. Kingshig of TANK MANUFACTURER: ilt by prior ow AL NUMBER: as none cuse: Storage of Sulf cshape:	hway mers -	-\$	6. DES Sul	Fairmont City SIGNATION OF TANK: <u>furic Acid (60⁰ I</u>	3e) Storage
int by prior ow AL NUMBER: as none cuse: Storage of Sulf	mers -	-\$	6. DES Sul	SIGNATION OF TANK: furic Acid (60° I	Re) Storage
AL NUMBER: as none (USE: Storage of Sulf (SHAPE: ORIZONTAL		-\$			Be) Storage
as none (USE: Storage of Sulf (SHAPE: ORIZONTAL	uric Ac	-1	8. CAP		
Cuse: Storage of Sulf CSHAPE: ORIZONTAL	uric Ac	0 4,	3	PACITY: 10,000	Ç
K SHAPE: DRIZONTAL	uric Ac				
DRIZONTAL		id (60° Be)		·	
	CYLT!	NDRICAL S	PHERICAL	Or oruse (species)	pen rectangular lead
C MAXMXX		12. TANK HEIGH			lined wood vat ANK LENGTH:
Width 8	• . •	FT.	7	FI	24
US:	MEN []	☐ ALTERATION	15. TA:		FIXED ROOF FLOATI
Existing .				PRESSURE	MOTHER (SPECIFY) Open
None	_	-			in think sheet to eldsto:
		Lea	d- 19. PAI	INT COLOR:	•
					
•		· · · · · · · · · · · · · · · · · · ·	IENT VALVE DATA	none required - o	open vat
TYPE OF VENT	NUMBER	PRESSURE SETTING .		DISCHARGE VENT	ED TO
	OF AFKIZ			(ATMOSPHERE, FLA	RE, ETC)
ofnation	a .	b PSTG c			•
DOUKE	a	b. PSIG c.			· · · · · · · · · · · · · · · · · · ·
ли		b 951G c			
	<u></u>	1310 6.			
	a	b PSIG c			
	· 	· MATE	RIALS TO BE STOR	ÆD	·
	MATERIAL			DENSITY	VAPOR PRESSURE AT 70
Stilfuric Acid (60° Be		b. 11	1.3 LBS/GA	L c. Approx.0.25mm
		:			
		N	В.	L US/GA	L c.
. ·	· · ·		b.	LBS/GA	L c.
•			-		
STOPAGE TEMPERATURE.			29. TAN		L c.
		<u> </u>	°F		26
				RAGE THROUGH PUT:	00 58 GA
	'n·.	LJ GALS	JUAT	100	OO 🙀 GA
AE220KE ECONTISEK2 OZE	מו 🗖	•	•		·
APOR LOSS COME	ce:		ONTROL DEVICE IS	The Scoul	T APPLICATION FOR AIR POLLUTION
	None LIPE: IVETED TYPE OF VENT Dination SSURE JUM STORAGE TEMPERATURE: MINISTIM 30 F MAXIMUM FILLING RATE: 50 gpm PRESSURE EQUALIZERS USE YES	None OTHER LIPE: LIVETED WELDED TYPE OF VENT OF VENTS Plantion SSURE A. MATERIAL Stolfuric Acid (60° Be) MINISTIM 30° F MATERIAL STORAGE TEMPERATURE: 50 gpm PRESSURE EQUALIZERS USED: YES NO	STORAGE TEMPERATURE: MATERIAL STORAGE TEMPERATURE: MINISTEM 30 F MAXIMUM 70 MAXIMUM FILLING RATE: 50 gpm GALS PRESSURE ID DOUBLE D	SINGLE DOUBLE 17. AVE None OTHER (SPECIFY) Lead 19. PAI VENT VALVE DATA 1 TYPE OF VENT OF VENTS PRESSURE SETTING SIGNE a. b. PSIG c. AUM a. b. PSIG c. MATERIALS TO BE STORE MATERIAL Stalfuric Acid (60° Be) MATERIAL STORAGE TELPPERATURE: MAXIMUM 70 °F MAXIMUM 70 °F	SINGLE DOUBLE 17. AVERAGE DISTANCE FROM TOP ON Not applicable Not painte Not

*See table 3-13 Chem. Engns. Hdbk -4th Ed.



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION ACENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVER: WILLIAM L. BLASER, DIRECT

1		AVA AND INFORMATION		FOR	OFFICIAL USE ONLY
ļ		ATA AND INFORMATION TING COMBUSTION EQUIPMENT		I.D. NO.	
		AND INDIRECT HEATING		PERMIT NO.	F
		Dryer Burne	er (E-2)	DATE	
la.	NAME OF OWNER: SWIFT CHEMIC	TAT. CO	16. NAME OF O	PERATOR:	
2a.	STREET ADDRESS OF OWNER:			DRESS OF OPERATOR:	
3a.	111 W. Jackson	Boulevard	3b. CITY OF 0		
	Chicago STATE OF OWNER:	4b. ZIP CODE:	5a. STATE OF	Fairmon	,
44.	Illinois	60604		linois	55. ZIP CODE: 62201
6.	NAME OF CORPORATE DIVISION	OR PLANT (IF DIFFERENT FROM OWNER):	<u>*</u>		
7.	LOCATED WITHIN CITY LIMITS	: ☑YES □NO		DRESS OF EMISSION SOU	
	CITY:	9b. LOCATED WITHIN CITY LIMITS:	2501 F	I. Kingshighwa	
34.	Fairmont City	YES NO	St. Clair	•	11. ZIP CODE: 62201
12.	WAS THE EQUIPMENT DESCRIBE	O IN THIS INFORMATIONAL FORM INSTALLED	AT THE PLANT OR P	REMISES OF THE APPLIC	ANT ON OR BEFORE APRIL 14, 197
•	X YES	□NO	••	-	
③ 13.	SHOW WHETHER OR NOT THE EM	THE RESULTS OF TESTS CONDUCTED IN ACC SSIONS OF CONTAMINANTS FROM THIS EMISS	CION SOURCE, ETTHE	R ALONE OR IN COMBINA	CHAPTER 2, AIR POLLUTION, WHI
	OTHER SOURCES LOCATED AT TO POLLUTION. IN LIEU OF ONE OR MORE OF SENGINEERING STUDIES SUFFICE	WE SAME PLANT OR PREMISES OF THE APPLIC SUCH TESTS, THE APPLICANT MAY SUBMIT OT SENT TO ACCURATELY ESTIMATE THE RATES O	HER STANDARD TEST OF EMISSIONS OF CO	ING INFORMATION OR TH	E REGULATIONS OF CHAPTER 2, AI E DETAILS AND RESULTS OF FMISSION SOURCE AND FURTHER
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THESE DATA AND INFORMATION CONSIST OF APPLICATION FORMS AND OTHER EXHIBITS LISTED BY TITLE AND NUMBER OF PAGES BELOW.

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1.0	. NO.				1	OR OFFICIAL	USE ONLY	PERMIT A	APPL I CAT I	ON NO. F		TT
5	· :==			(1	PRIOR TO PASS	EXHAUST GAS	ANALYSIS ANY CONTROL I	EQUIPMENT)				
NOT	E: IF THE EN	MISSION SOUR	RCE WHIC		CT OF THIS CO	SUSTRUCTION I	PERMIT APPLIE	CATTON IS SI	ERVED BY	MORE THAN ONE	EXHAUST STACK OR	
CON	TAMIRANT	CONCENTRAT		EMISSION			OF MEASURE		s	ОНТЭК	O OF MONITORING	
οŋ.	CAREON MONOXIDE	a.	PPM	b.	LB/HR	c.				d.		
61.	CARBON DIOXIDE	a. 11%	PPM	b. 156	LB/HR		ole 9 -			d.		
62.	CHLORINE	a.	PPM	 	LB/HR	c.				d.		
63.	HYDROCAR- BONS AS CH4	a.	PPM	b	LB/HR	c.				d. :		
64.	HYDROGEN CHLORIDE	a.	PPM	b	LB/HR	c.				d.		
65.	HYDROGEN SULFIDE	a.	PPM	b.	LB/HR	c.				d.	**	
66.	NITROGEN	a.	PPM	b.	LB/HR	c.				d.		
67.	NITROGEN OXIDES AS NO2	a. 24	PPM	ь. 0.49	LB/HR	c. See	chap. 9	of		d.		
68.	SULFUR DIOXIDE	a. 11	PPM			c. Air I	Pollution 1967		I	d.	· · · · · · · · · · · · · · · · · · ·	
69.	OTHER	a.	PPM	b	LB/HR	c.	1901			d.		<u>-</u>
C 70.	(SPECIFY) PARTICULATE	a045	GRAIN	b. Est. A		c.				d.		
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7 101	F: THIS SECT	TON TO BE C	OMPLETE	D ONLY IF EMIS	SIONS ARE EXI	AUSTED DIREC	CTLY TO THE	ATMOSPHERE	WITHOUT A	NY CONTROL EQU	TDMFNT•	
J 72.	HOW EMISSIO	NS ARE EXHA	USTED:		73. GAS EXIT					EXIT TEMPERAT		
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82.		CATION, THE									EQUIPMENT COVERED TO THIS APPLICATION	
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83:	NITROGEN, A	ND HYDROÇAR	RBONS (A	ESTIMATE OF T S METHANE) EMI APPLICATION.	TTED FROM ALL	. SOURCES LO	CATED ON THE	PLANT OR P	REMISES.	INCLUDING THE	BON MONOXIDE, OXI EMISSIONS ESTIMATE	DES OF ED FROM
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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION ACENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVER

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		COMPLIANCE	PLAN			I.D. NO.		
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1.	NAME OF OWNER: SWIFT C	HEMICAL CO.		7.	NAME OF COR	PORATE DIVISION OR PL	_	RENT FROM OWNER):
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3.	STREET ADDRESS OF OWNE	≀: n Blvd.		9.		ess of emission sourd . Kingshighwa	У	
	Cliv: Chicago				CITY: Fairmor	nt City	ואס פרי	THE CITY LIMITS YES NO
5.	STATE:	6. ZIP CODE	60604	12.	St. Cl	air	13. ZIP CODE	2201
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14.	equipme include	nt covered labels for	by this Comp each source	rocess flow di liance Plan an and equipment on control equ	d related 0, and shall	perating set for	Permit an th maximum	plication. I flow rate	The diag s for (1)	ram shall all process	
				previously sub out may refere					ation, the	applicant	
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15.	Enviror mation and engine the shall be	mental Prot as to the t ineering re operation b e accuratel	ection Act an echnical reas ports or stude eing in compl y and clearly	etailed descri nd applicable sonableness of dies sufficien liance with th v labeled on t n one of the f	substantive the propos t to prove e Act and a he process	Regulated air potential that the policable flow diameter.	ions. Thi ollution of installate substant gram. Det	is descript control equation of thi live Regula	ion shall ipment or s equipmen tions. Th	include infor control techn t will result is equipment	iques
	(a)	specific i forms, and installed, (complete	tems of equip shall note of as part of o as necessary	ntered into a oment, he shal on page one (1 our Compliance) as item (com ed and attach	l complete) of such f Plan for t plete as ne	applicab forms "Th the opera cessary)	le Construis equipment tion, and ." The ag	ection Perment is pure is indicat	nit applica chased, but ded on draw	tion not ing	
		Total number	er of pages i	n Exhibit N:	1	-Fuel	oil co	ontract	will n il July	ot be	
	(b)	obligation tion Permi be purchase on drawing	to purchase t application ed and instal (complete as	elected but no specific item a forms and sh led as part o a necessary) a forms so mark	s of equipm all note on f our Compl s item (com	nto a binent, he page (1 iance Plant)	nding agre shall com;) of such an for thi necessary	eement or o lete appli forms "Thi is operation"." The a	contracturu cable Cons s equipmen n and is i pplicant s	al truc- t is to ndicated	
		Total numb	of pages 1	n Exhibit P:		-					
	(c)	techniques performanc (B) provid specificat	but has not e specificati e a test plar ion, will be	elected the ty selected spec onswhich deta which will d tested to pro attach this	ific items il the perf etai∖l how t ve that the	of equipment of eq	ment, he so of the equ ment, purc nt meets i	shall (A) s ripment to chased purs the applica	ubmit be procure uant to a	given	
		Total number	er of pages i	n Exhibit Q:		_					
cont	rol equi	pment or co	ntrol technic	roject Complet que. The fina described in	1 complianc	e date o	f such Pro				•
Tota	1 number	of Forms Al	C-98 submit	ed with this	application	ı:	1			•	
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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR
WILLIAM L. BLASER, DIRECTOR

\$: • • • •				`	•
	PROJECT COMPLETION SCHEDULE	To muse s	I.D. NO. PERMIT NO. DATE	OR OFFICIAL USE ONL	
1.	NAME OF OWNER: SWIFT CHEMICAL CO.	2. NAME C	F CORPORATE DIVISION OR	PLANT (IF DIFFEREN	II FROM OWNER):
2.	STREET ADDRESS OF EMISSION SOURCE: 2501 N. Kingshighway	4. CITY:	Fairmont.City		
5.	NAME OF AUTHORIZED PERSON PREPARING THIS FORM:	6. SIGNAT			······································
7.	YUUR IDENTIFICATION NUMBER: (OPTIONAL)	8. DATE T	HIS FORM 98 PREPARED: anuary 15, 1973		
9.	OPERATING PERMIT NUMBER: (IF AVAILABLE)		RUCTION PERMIT NUMBER: VAILABLE)		
5	THIS FORM MUST BE COMPLETED FOR EACH ITE IN ACCORDANCE WI			MODIFIED	
	The steam boiler E-1 burns No. 2 fuel American Oil Company, Standard Oil Div sulfur. To comply with Rule 204(C)(2)(content of the No. 2 fuel oil will be r give an emission of only 0.287 lbs. SO ₂	It no B) on De educed t	ecember 31, 1973 to less than 0.2	verage of 0., the sulfur	4%
ر م	F. l on chaim on drawings 102 and l	04 pages	34 & 35		
O _{13.}	E-1 as shown on drawings 102 and 19 STATE THE PURCHASE PRICE OF THIS EQUIPMENT: KX SECTION TO ACTUAL 6005*	04 pages	: 34 & 35 THE TOTAL COST (EQUIPME TIMATED □ ACTUA		un): ne **
	E-1 as shown on drawings 102 and 19 STATE THE PURCHASE PRICE OF THIS EQUIPMENT: KX SECTION TO ACTUAL 6005*	O4 pages 14. STATE ESPLETE COLUMN EXPACT BE	34 & 35 THE TOTAL COST (EQUIPME TIMATED ACTUAL ACTUAL ACTUAL ACTUAL ACTIVITY WILL ACTIV	B. EST DATE VITY WILL MPLETED TEM	

MOTE: THE TIME ELAPSED BETWEEN TWO CONSECUTIVE EVENTS LISTED IN ITEM 15 ABOVE SHALL NOT EXCEED 6 MONTHS. IN CASE CONSECUTIVE DATES EXCEED 6 MONTHS YOU MUST INTRODUCE AN INTERIM EVENT OR EVENTS SO THE TIME INTERVAL BETWEEN ANY TWO CONSECUTIVE EVENTS IS 6 MONTHS OR LESS.

- * original boiler cost in 1965
- ** to meet rules no equipment changes
 will be required. Supplier will provide
 lower S content fuel

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STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

RICHARD B. OGILVIE, GOVERNOR WILLIAM L. BLASER, DIRECTIR

11 5 26 1118

Caller .					FOR OFFICIAL USE ONLY							
		ANDENDUM L DISPOSITION OF SOLID WASTE MATERIAL		I.D. NO.	116130501	4 AB						
		FROM DRY COLLECTORS		PERMIT NO. DATE	P2100	690						
1. NAME O	F OWN	ER:	2. NAME	1	ION OR PLANT (IF DIFFERENT	FROM OWNER):						
3 STDEET	Δ =: ∩ D	Swift Chemical Co. ESS OF EMISSION SOURCE:	4. CITY	/ 								
		orth Kingshighway		St. Louis, I	1. 62201 (Fairmon	nt City)						
	5.	Describe the processes which result in the production addendum.	of solid wa	aste material and at	tach this description to th	ıi s						
		Total number of pages in Exhibit S:										
	6.	Describe the state of the waste material (slurry, cake proposed disposal site and attach this description to	, fine ash this adden	, cinders, powder, s dum as Exhibit T.	ludge, etc.) at the applica	ant's						
		Total number of pages in Exhibit T:										
•	7.	State the chemical composition, expressed as a weight percentage, of the solid waste and attach to this addendum as Exhibit U: Not applicable as process has no solid waste as such, it is all recycled back into the process										
	8.											
-		Total number of pages in Exhibit V: not applicable - see note under Item 7										
)	9.	Will the solid waste materia! be deposited in a sanitary landfill permitted by the Environmental Protection Agency? [] Yes 区 No										
)		If "Yes" state the name and Agency permit number of such site.										
المالية المالي			AME									
	-	PERMIT NUMBER										
)	10.	State if the solid waste material will be deposited in a sanitary landfill for which an Agency permit application is pending. Yes 🔞 No										
		If "Yes" give the name and legal description of this \boldsymbol{s}	ite:									
				. 								
ס	11.	Will the solid waste material be reused or recycled at	the applic	cant's plant or prem	rises? 🗷 Yes 🗌 No	_						
	•	If "Yes" describe the reclaiming process and attach to	this adder	ndum as Exhibit W.		-						
		Total number of pages in Exhibit W:			•							
	12.	Will the solid waste material be transported to a remo	te site foi	r reuse or recycling	? ☐Yes ☑No							
		If "Yes" describe the location and reclaiming process	and attach	to this addendum as	Exhibit X.							
		Total number of pages in Exhibit X:										
	13.	Will the solid waste material be incinerated?	⊠No	*								
		If "Yes" state the name, location, and owner of the in	cinerator a	and attach to this a	ddendum as Exhibit Y.							
		Total number of pages in Exhibit Y:		•								
	14.	If the solid waste will be disposed in a manner not de state the method if disposal to be used, the owner and this addendum as Exhibit Z.										
		See exhibit	W ·									

DESCRIPTION OF THE PROCESS WHICH RESULTS IN THE PRODUCTION OF SOLID RECYCLE(WASTE)MATERIAL

Referring to the Process Flow Diagram (Drawing No. 102) Page 34, a maximum of 18,000 scfm of air is drawn through a rotary tube dryer(R-2) to remove moisture from a showering and cascading mass of fertilizer (M.G.) which was mixed and granulated in the ammoniator-granulator(R-1). The moisture content of the M.G. as it enters the dryer(R-2) will range from 5% to 7%. In drying this is reduced to a desired 1.00 to 2.0% depending on the M.G. formulation. The product dryness is only reduced to that level which will insure good product quality in subsequent storage and use.

Dryer air flow entrains particulate during its passage through the showering M.G. and is carried by the air stream into a dry collector of the conventional cyclone type (CY-1). See Exhibit 6, 7, & 8, Pages 29, 30, & 31, for data on particulate size range. Particulate collected therein is conveyed immediately and continuously back to the ammoniator-granulator (R-1) as a part of the return fines or recycle load.

Mixed fertilizer(M.G.) subsequent to drying is then sized into 3 separate fractions by being subjected to screening on an enclosed double deck screen(SC-1). Material larger than the top deck screen mesh, usually a nominal 6 mesh(3.36 mm opening), is diverted to a crusher(CR-1) and then returned directly again to the top section of the double deck screen(SC-1). Material retained on the lower deck of screen SC-1 is the desired product size, nominally a -6+16 mesh, and this discharges to a rotary tube cooler(R-3). Material which passes the 16 mesh (1.19 mm opening) of the lower deck constitutes additional fines which are returned to the ammoniator-granulator(R-1) as part of the recycle load.

The on-size warm product passes through the rotary tube in a showering and cascading fashion counter-currently to a maximum flow of 12,000 scfm of ambient air which primarily cools and secondarily, further drys the product prior to conveying to storage. The flow of air passing through the cooler (R-3) will entrain airborne particulate which is to a large extent captured in dry collector CY-2, a conventional cyclone. The fines from this cooler cyclone collector (CY-2), like those from the double deck screen (SC-1), and the dryer cyclone (CY-1), are gravity fed through enclosed chutes to a belt conveyor discharging these fines along with fresh dry solids feed into the ammoniator-granulator (R-1). The quantity of recycle fines will vary depending on the particular grade of mixed goods (M.G.) being formulated and the physical characteristics of individual ingredients. The amount of return cannot be stated with exactitude for those reasons. However, the weight of fines recycling will range from 0.5 to 2.0 tons per ton of product produced, but for most grades the recycle rate is about 0.75 to 1.0 ton per ton of M.G. conveyed to storage.

EXHIBIT T

DESCRIPTION OF RECYCLE MATERIAL FROM DRY COLLECTORS

There is no waste of material from the dry collectors. Recovered fines constitute dry solids such as superphosphate, ammonium sulfate, potassium chloride, dolomite, etc. These are returned to the ammoniator-granulator as part of the solids recycle. Particulate material which escapes the dry collectors is almost entirely recovered in a subsequent wet scrubber (Rotoclone SR-2) - see drawing No. 102, Page. These solids are recovered by return of the concentrated scrubber liquid to either the ammoniator-granulator(R-1) or to the dryer (R-2) or a portion to both. All the solids material entering the dry collectors is recycled. The small fraction escaping is thoroughly documented in Exhibit-B(3) "A Summary of Stack Emission Tests on Dry/Cooler Scrubber Emission Source #12, Page 14".

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DESCRIPTION OF RECLAIMING PROCESS

(This is a repetition of description given in the latter portion of Exhibit S):

"The fines from this cooler cyclone collector (CY-2), like those from the double deck screen (SC-1) and the dryer cyclone (CY-1), are gravity fed through enclosed chutes to a belt conveyor discharging these fines along with fresh dry solids feed into the ammoniator-granulator (R-1)"

Particulate which is not captured in the cyclones is almost completely captured in the wet scrubber and the scrubbing solution is reclaimed by return to the ammoniator-granulator (R-1) and dryer (R-2).

1D: 163 050 AAB
ESTECH GENERAL CORP.

COMPANY NAME: SWIFT CHEMICAL CORP.

PERMIT NUMBER: QZ 10 0690

SOURCE				CONTROL			
NO.	NAME	PG	NO.			STACK NO.	
001	AMMONIATOR / GRANDLATO	1924	COI	WET CYCLONE	1935	S0/	
DOZ	DRYER & COOLER	1931	COZ	CYCLUNG + CYCLONE			
		w		+ BOTO CLONE			
003	BOILER	1943					
004	STORAGE TANK	1959			,		
005	STORAGE TANK	1959					
00%	STORAGE TANK	1964					
*****	\						
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